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PUBLIC UTILITIES
COMMISSION

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF HAWAII

In the Matter of

PUBLIC UTILITIES COMMISSION

DOCKET NO. 2008-0274

Instituting a Proceeding to Investigate
Implementing a Decoupling Mechanism for
Hawaiian Electric Company, Inc., Hawaii Electric
Light Company, Inc., and Maui Electric Company,
Limited

MOTION TO SEAL
OF HAWAIIAN ELECTRIC COMPANY, INC., HAWAII ELECTRIC
LIGHT COMPANY, INC., AND MAUI ELECTRIC COMPANY, LIMITED

EXHIBITS A-B

DECLARATION OF PATSY H. NANBU

AND

CERTIFICATE OF SERVICE

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MAUI ELECTRIC COMPANY, LIMITED

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF HAWAII

In the Matter of

PUBLIC UTILITIES COMMISSION

Instituting a Proceeding to Investigate
Implementing a Decoupling Mechanism for
Hawaiian Electric Company, Inc., Hawaii
Electric Light Company, Inc., and Maui
Electric Company, Limited

DOCKET NO. 2008-0274

MOTION TO SEAL
OF HAWAIIAN ELECTRIC COMPANY, INC., HAWAII ELECTRIC
LIGHT COMPANY, INC., AND MAUI ELECTRIC COMPANY, LIMITED

HAWAIIAN ELECTRIC COMPANY, INC. ("Hawaiian Electric"), HAWAII
ELECTRIC LIGHT COMPANY, INC. ("HELCO"), and MAUI ELECTRIC COMPANY,
LIMITED ("MECO")¹ respectfully move the Commission to seal as confidential parts of
Attachment 8 to the Hawaiian Electric Companies' response to PUC-IR-52, filed August 7, 2009
in this docket ("Attachment 8").²

By transmittal letter filed August 7, 2009, the Hawaiian Electric Companies submitted
responses to the July 15, 2009 post-hearing information requests ("IRs"), PUC-IR-50 through
PUC-IR-55, prepared by the Commission's consultant, the National Regulatory Research
Institute ("NRRI"). In responding to the Commission's IRs, the Companies provided a summary

¹ Hawaiian Electric, HELCO and MECO are collectively referred to as the "Hawaiian Electric Companies" or "Companies".

² Paragraph 10 of the protective order issued on January 6, 2009 in this docket ("Protective Order") provides that:

Any party may request the Commission to designate as confidential information any document or other information previously produced but not designated as confidential, provided that the party . . . specifies the subject-matter of such confidential information, the basis for the claim of confidentiality, and the cognizable harm to the producing party from any misuse or unpermitted disclosure of the information. In addition, the producing party shall substitute the previously-produced but not designated as confidential material with the identical material under designation . . .

of each respective company's return on equity ("ROE") calculations for each of the years from 2004 through 2013, including the Companies and the Division of Consumer Advocacy of the Department of Commerce and Consumer Affairs' ("Consumer Advocate") jointly proposed sales decoupling, rate base, and operations and maintenance Revenue Adjustment Mechanisms ("RAMs"), with the NRRI's proposed Sales Decoupling/Revenue Per Customer adjustments, and modified RAMs included in subparts a to f of PUC-IR-52, as shown in Attachment 8.

As further explained below, the ROE forecasts for the Hawaiian Electric Companies provided in Attachment 8 for the years 2009 through 2013 are confidential, as they constitute financial information for future years that could affect investor decisions regarding the Companies' financing. The Companies' intent had been to provide the confidential information under the Protective Order issued in this docket. However, in submitting Attachment 8 on August 7, 2009, the Hawaiian Electric Companies inadvertently provided the confidential information in a non-confidential format.³

The ROE forecasts for the Hawaiian Electric Companies provided in Attachment 8 for the years 2009 through 2013 constitute financial information for future years which is nonpublic information that should not be disclosed, as such disclosure would likely trigger requirements under the rules and guidelines of the Securities and Exchange Commission ("SEC") and/or the New York Stock Exchange ("NYSE") requiring that information that would be meaningful to

³ See Declaration of Patsy H. Nanbu. Following the August 7, 2009 filing, by an e-mail to the parties sent the same day, Hawaiian Electric informed the parties that Attachment 8 contains confidential forward-looking information and was inadvertently filed as non-confidential. The e-mail included a properly redacted version of the August 7, 2009 filing, and requested that the parties delete the electronic version of the filing that the Companies had e-mailed to the parties earlier that day (which version included an un-redacted Attachment 8). The Companies further notified the parties that the Companies would be filing the redacted pages with the Commission on the morning of Monday, August 10, 2009. However, the Hawaiian Electric Companies have discovered errors in some of the attached calculations supporting the response to PUC-IR-52. The Companies will correct these errors in a subsequent filing that will replace the IR responses attached to this motion as Exhibit A. A copy of the Companies' August 7, 2009 e-mail discussed above is attached as Exhibit B to this motion.

investors be released to all investors, if the information is disclosed beyond a limited number of “insiders” (including persons required by agreement to maintain confidentiality of the information and to use it only for proper purposes).⁴

As a result, if the confidential portions of Attachment 8 are not filed under the Protective Order, disclosure of nonpublic information in Attachment 8 would likely trigger disclosure requirements under the rules and regulations of the SEC and/or NYSE.⁵

The Hawaiian Electric Companies completed Attachment 8 based on the information included on Attachment 1 to the Companies’ response to PUC-IR-52, which was provided under the Protective Order for illustrative purposes, based on the information request including certain revenue assumptions for future years. If such information is required to be disclosed pursuant to the disclosure requirements under the rules and regulations of the SEC and/or the NYSE, because such information is not provided under the Protective Order, investors may use such information out of the context in which it was prepared, and make inappropriate investment decisions that could lead to claims against the Hawaiian Electric Companies.⁶ Accordingly, in order to avoid public disclosure of the Companies’ confidential information, the Hawaiian Electric Companies request that the Commission seal Attachment 8 as confidential.

A complete and properly redacted version of the Companies’ August 7, 2009 responses to PUC-IR-50 through PUC-IR-55 is attached to this motion as Exhibit A.⁷ Confidential portions of those IR responses (i.e., Attachment 1 and portions of Attachment 8 to the Companies’ response to PUC-IR-52) have been redacted and are being provided under seal, pursuant to the Protective Order. Attachment 1 to the response to PUC-IR-52 was redacted from the

⁴ See Declaration of Patsy H. Nanbu.

⁵ See id.

⁶ See id.

⁷ As discussed in footnote 2, *supra*, the Hawaiian Electric Companies have discovered errors in some of the attached calculations supporting the response to PUC-IR-52. The Companies will correct these errors in a subsequent filing that will replace the IR responses attached to this motion as Exhibit A.

Companies' August 7, 2009 filing. Thus, the only difference between Exhibit A and the responses to PUC-IR-50 through PUC-IR-55 filed on August 7, 2009 is that in Exhibit A, the confidential portions of Attachment 8 have been redacted from the response to PUC-IR-52.

The Hawaiian Electric Companies sincerely apologize for the inconvenience to the Commission and the other parties caused by the foregoing redaction, and respectfully request that the Commission grant the Companies' Motion to Seal.

This motion is filed pursuant to Section 6-61-41 of the Rules of Practice and Procedure Before the Public Utilities Commission, Title 6, Chapter 61 of the Hawaii Administrative Rules.

No hearing is requested on this motion.

DATED: Honolulu, Hawaii, August 12, 2009.



THOMAS W. WILLIAMS, JR.

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DAMON L. SCHMIDT

Attorneys for
HAWAIIAN ELECTRIC COMPANY, INC.,
HAWAII ELECTRIC LIGHT COMPANY, INC., and
MAUI ELECTRIC COMPANY, LIMITED

EXHIBIT A



Dean K. Matsuura
Manager
Regulatory Affairs

August 7, 2009

The Honorable Chairman and Members of
the Hawaii Public Utilities Commission
Kekuanaoa Building, 1st Floor
465 South King Street
Honolulu, Hawaii 96813

Dear Commissioners:

Subject: Docket No. 2008-0274 – Decoupling Proceeding
Hawaiian Electric Companies' Responses to Information Requests

Enclosed for filing are the Hawaiian Electric Companies¹ responses to the July 15, 2009 post-hearing information requests ("IRs"), PUC-IR-50 through PUC-IR-55², prepared by the Commission's consultant, National Regulatory Research Institute, in this proceeding.³

Very truly yours,

A handwritten signature in black ink, appearing to read "Dean K. Matsuura".

Enclosures

cc: Division of Consumer Advocacy
Hawaii Renewable Energy Alliance
Haiku Design and Analysis
Hawaii Holdings, LLC, dba First Wind Hawaii
Department of Business, Economic Development, and Tourism
Hawaii Solar Energy Association
Blue Planet Foundation

¹ The "Hawaiian Electric Companies" or "Companies" are Hawaiian Electric Company, Inc., Hawaii Electric Light Company, Inc. and Maui Electric Company, Limited.

² For reference purposes, the Companies have renumbered PUC-IR-1 through PUC-IR-6 to follow in sequential order the IRs previously submitted by the Commission. This was done to avoid confusion with previous IRs which were similarly numbered.

³ On July 31, 2009, the Companies filed a request with the Commission to file responses to these IRs by August 7, 2009.

PUC-IR-50

Please identify and explain into which FERC accounts the HECO Companies place their investment into system reliability (investments that directly affect the HECO Companies' ability to keep the lights on)? Please explain any differences from the following FERC accounts: 352-358 for transmission, 361-368 for distribution and 390 for generation.

HECO Companies' Response:

The Companies record their plant assets in accordance with the National Association of Regulatory Utility Commissioners' ("NARUC") Uniform System of Accounts ("USOA") for Class A and B Electric Utilities.¹ Although FERC's plant account numbers may be similar to NARUC's plant accounts, there are some differences between FERC and NARUC guidelines. However, for the purposes of responding to this information request as discussed on July 31, 2009, with the Commission's consultant, Mr. David Boonin from the National Regulatory Research Institute, and the other parties in the proceeding , the Companies will refer to NARUC accounting guidelines.

The Companies primarily classify all assets placed into service, including those related to system reliability and customer additions, into six categories: 1) Steam Production; 2) Hydraulic and Pumped Storage Production; 3) Other Production; 4) Transmission Plant; 5) Distribution Plant; and 6) General Plant. Within each category, the assets are recorded into plant accounts based on the type of assets placed into service. Therefore, each account below may contain assets related to system reliability and customer additions:. (See response to PUC-IR-52, part a, for a description of the process the Companies utilized to meet the objective of NRRI's request for plant asset addition information by reliability and customer additions.)

¹ The use of NARUC's uniform system of accounts is required by the Commission's Order No. 266, filed August 9, 1937. See Attachment 1 of this response.

<u>Account</u>	<u>Description</u>
	Steam Production Plant
3100	Land and Land Rights
3110	Structures and Improvements
3120	Boiler Plant Equipment
3140	Turbogenerator Units
3150	Accessory Electric Equipment
3160	Miscellaneous Power Plant Equipment
	Hydraulic and Pumped Storage Production Plant
3300	Land and Land Rights
3310	Structures and Improvements
3320	Reservoirs, Dams and Waterways
3330	Water Wheels, Turbines and Generators
3340	Accessory Electric Equipment
3350	Miscellaneous Power Plant Equipment
3360	Roads and Bridges
	Other Production Plant
3400	Land and Land Rights
3410	Structures and Improvements
3420	Fuel Holders, Producers & Accessories
3430	Prime Movers
3440	Generators
3450	Accessory Electric Equipment
3460	Miscellaneous Power Plant Equipment
	Transmission Plant
3500	Land and Land Rights of Way
3520	Structures and Improvements
3530	Station Equipment
3540	Towers and Fixtures
3550	Poles and Fixtures
3560	Overhead conductors and Devices
3570	Underground Conduit
3580	Underground Conductors and Devices
3590	Roads and Trails
	Distribution Plant
3600	Land and Land Rights of Way
3610	Structures and Improvements
3620	Station Equipment
3640	Poles, Towers and Fixtures
3650	Overhead conductors and Devices

3660 Underground Conduit
3670 Underground Conductors and Devices
3680 Line Transformers
3691 Overhead Services
3692 Underground Services
3700 Meters

General Plant

3890 Land and Land Rights
3900 Structures and Improvements
3911 Information System Equipment
3912 Office Data Handling Equipment
3913 Office Furniture
3920 Transportation Equipment
3930 Stores Equipment
3940 Tools, Shop and Garage Equipment
3950 Laboratory Equipment
3960 Power Operated Equipment
3970 Communication Equipment
3980 Miscellaneous Equipment

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE TERRITORY OF HAWAII

In Re: The Establishment of a }
Uniform System of Accounts }
for Electric Utilities. }

ORDER NO. 266.

Uniform System of Accounts
Electric Utilities

Filed August 9, 1937
At 1:45 o'clock P.M.

JR Kennedy.
Secretary of the Commission

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE TERRITORY OF HAWAII

In Re: The Establishment of a }
Uniform System of Accounts }
for Electric Utilities. }

ORDER NO.266
Uniform System of Accounts
Electric Utilities

At a session of the Public Utilities Commission of the Territory of Hawaii, held at Honolulu on May 3, 1937.

In Re: The establishment of a Uniform System of Accounts for electric utilities.

The Commission having under consideration the adoption of a uniform system of accounts in accordance with which the accounts for electric utilities shall be kept, and having for a long time observed the necessity for such a system in order that the Commission's function of rate regulation be properly performed; and

Having determined that uniform systems of accounts have been prescribed by the Federal Power Commission for all utilities reporting to it; and

Having further determined that the National Association of Railroad and Utilities Commissioners has recommended substantially identical systems for adoption by the Commissions represented in its membership; and

Having determined that eighteen states have prescribed the systems or approved the use of the systems; and

Having further placed the systems, so recommended, in the hands of the electric utilities of the Territory with the statement

that the Commission contemplated the prescription of same and a request that objections be submitted, and having received no objections which in the opinion of the Commission are substantial enough to overcome the advantages to be obtained; it is

ORDERED, that the National Association of Railroad and Utilities Commissioners Uniform System of Accounts for electric utilities is prescribed for the purpose of keeping accounts by electric utilities under the jurisdiction of this Commission; except that

Utilities having an annual electric operating revenue of more than \$200,000.00 but less than \$750,000.00 shall be classified as Class B Utilities for the purpose of applying the accounts prescribed; and it is further

ORDERED, that on and after January 1, 1938, accounts of all electric utility companies under the jurisdiction of this Commission shall be maintained in accordance with the system unless a deviation therefrom is permitted by Order of the Commission.

DONE at Honolulu, City and County of Honolulu, Territory of Hawaii, this 9th day of August, 1937.

PUBLIC UTILITIES COMMISSION
OF THE TERRITORY OF HAWAII

By V.B. Hobby
Its Chairman

By Geo N. Lovell
Commissioner

By W.R.S.H. Minow
Commissioner

By J.G. Manary
Commissioner

By R.R. Hall
Commissioner

PUC-IR-51

Please identify and explain into which FERC accounts the HECO Companies place their investment into customer additions? Please explain any differences from the following FERC accounts: 369-371.

HECO Companies' Response:

Please see the Companies' response to PUC-IR-50. Also, please see response to PUC-IR-52, part a, for a description of the process the Companies utilized to meet the objective of NRRI's request for plant asset addition information by reliability and customer additions.

PUC-IR-52

Please quantify the effect (both revenue and projected ROE) of each of the following revenue enhancement tools associated with sales decoupling, with and without a RPC with reset (i.e., two cases for each letter below), consistent with the layout used by the HECO Companies in their most recent response to PUC-IR-14. Please provide the information prospectively and historically (as if in place).

- a. Inter-rate case revenue adjustment equal to the authorized return and depreciation on net additions to the FERC accounts related to system reliability, with the last rate case as a base. Adjustments would operate similar to the REIPS mechanism (i.e., be made after plant is placed into service, and includes return on and of investment) and occur quarterly. Utilities would file annual estimates of net additions to these accounts, providing the Commission with prospective oversight as to the general reasonableness of the utility's investment into system reliability.
- b. Inter-rate case revenue adjustment equal to the authorized return and depreciation on net additions to the FERC accounts related to customer additions, with the last rate case as a base. The utility would calculate these adjustments quarterly in a manner similar to the REIPS mechanism. Utilities would file annual estimates of net additions to these accounts, providing the Commission with prospective oversight as to the general reasonableness of the utility's investment into customer additions.
- c. Inter-rate case revenue adjustment equal to difference in operating and maintenance costs associated with complying with Act 155, from those included in base rates. Adjustments would operate similar to the ECAC mechanism and occur quarterly.
- d. The O&M portion of the RAM proposed by the HECO Companies (i.e., RAM without rate base adjustments).
- e. The total of items 4a, b and c.
- f. The total of 4a, b and d.

HECO Response:

Attachment 1 of this response (confidential) provides the spreadsheets as requested for HECO (page 1), HELCO (page 2), and MECO (page 3), respectively. As this attachment includes financial information for future years which is nonpublic information that should not be disclosed publicly as it might trigger requirements under the rules and guidelines of the Securities and Exchange Commission and/or the New York Stock Exchange that information that would be meaningful to investors be released to all investors, if the information is disclosed beyond a limited number of "insiders" (including persons required by agreement to maintain the

confidentiality of the information and to use it only for proper purposes), they are being filed under the Protective Order issued on January 9, 2009 in this proceeding. If these attachments are not filed under the Protective Order in this proceeding, the disclosure of nonpublic financial information might trigger disclosure requirements under the rules and regulations of the Securities and Exchange Commission and/or the New York Stock Exchange.

Attachment 1 contains the latest PUC-IR-14 spreadsheets filed for the HECO Companies: HECO – June 29, 2009, HELCO – June 29, 2009, and MECO –June 25, 2009, with the following modifications:

- 1) Adjustments to HECO's rows 7 and 7a for 2006 to 2009. The adjustments to Line 7 and Line 7a in years 2006 through 2009 reflect corrections to the amounts and the timing related to the implementation of the 2005 interim rate increase, 2005 final rate increase and refund, and the 2007 interim rate increase.
- 2) Incorporate RPC with reset calculations for the historical years as well the prospective years where these calculations were not needed in the PUC-IR-14 filing. This is needed to complete subparts a to f of this IR response. See also the Companies' response to PUC-IR-55.
- 3) Adjustments to correct (a) HECO's 2011 to 2013 RPCs with reset which did not correctly accumulate the change of the customer index from year to year (the line 35 value in Attachment 1, page 1 of the response to PUC-IR-14 (revised June 29, 2009) incorrectly indicated the change from the previous year instead of the change from the previous rate case value), and which did not use the correct base revenues from the 2011 rate case to calculate the 2012 and 2013 RPC values, (b) HELCO's 2012 to 2013 RPCs with reset which did not correctly

reflect the cumulative change of the customer index from year to year (the line 35 value in Attachment 1, page 5 of the response to PUC-IR-14 (revised June 29, 2009) incorrectly indicated the change from the previous year instead of the change from the previous rate case value), and (c) MECO's 2012 RPC with reset which did not reflect the cumulative change of the customer index from 2011 (the line 35 value in Attachment 1, page 9 of the response to PUC-IR-14 (revised June 25, 2009) incorrectly indicated the change from the previous year instead of the change from the previous rate case value). See also the Companies' response to PUC-IR-55. The corrected RPC with reset amounts are shown on line 44 of Attachment 1.

- 4) Rows 43 to 128 were added to respond to this IR's subparts a to f.

In a July 31, 2009 teleconference call¹, the Parties, and the Commission's staff and consultant agreed to several simplifying assumptions to develop the Companies' response to this information request ("IR"), including:

- 1) The use of a composite depreciation rate^{2,3} for the requested asset categories, effective in the estimating years, as authorized in each Company's immediately prior rate case.

¹ The participants included: (1) Commission staff; (2) the Commission's consultant, NRRI; (3) the Consumer Advocate and its consultant, Utilitech; (5) Haiku Design and Analysis; (6) DBEDT; and (7) the HECO Companies.

² HECO & HELCO Depreciation Calculation Methodology: Due to time constraints, the depreciation amounts for 2004-2009 were based on plant additions for the prior year and based on actual functional account depreciation composite rates applied to the plant additions categorized by functional account. For plant additions which were recorded to numerous functional accounts, categorized the plant additions based on the functional account of the majority of its costs. For depreciation amounts for 2010-2013 were based on plant additions forecasted for the prior year using the same methodology as above. The 2009 actual functional account depreciation composite rate was used in the 2010-2014 depreciation calculation.

³ MECO Depreciation Calculation Methodology: Depreciation for each year was calculated by applying a functional group (i.e., production, transmission, distribution, general plant) composite depreciation rate to the estimated functional group plant additions for each of the requested asset categories (system reliability, customer

- 2) Due to the burdensome and time-consuming nature of identifying O&M expenses for historical years related to Act 155 compliance, only the prospective years, 2009 to 2013, were to be completed for subpart c.
- 3) As the original PUC-IR-14 requested historical results for 2004 to 2008 without backcasting for sales decoupling and the inclusion of RAM revenues, the original results did not include the effect of the implementation of sales decoupling for the historical years (as well as for the prospective years before the assumed year where sales decoupling is effective). Since NRRI stated that the IR was intended to analyze the change based on the system reliability and customer additions RAM methodologies proposed in the IR, it was not necessary to derive the sales decoupling component for the historical years to respond to subparts a and b. See the note on Attachment 8, pages 1 and 2, which further explains the impact of the exclusion of the sale decoupling (“RBA”) component.
- 4) As the use of quarterly calculations would make this overly complex, the HECO Companies also made a simplifying assumption that the proposed RAMs would be estimated and recovered in the same year, i.e., the same assumption used by the Companies in their response to PUC-IR-14. Thus, putting the comparison of this response to the Companies’ response to PUC-IR-14 on an apples-to-apples basis.

In terms of the actual implementation of the recovery of the rate base RAM as proposed in subparts a and b below, the proposal to use a mechanism

additions, renewables, other). The functional group composite depreciation rate was determined based on the weightings of the actual beginning of year plant in service balances for each utility plant account for the historical years. For the forecast years the functional group composite depreciation rate was determined based on the weightings of the actual plant in service balances for each functional group as of January 1, 2008.

similar to the proposed REIP mechanism provides advantages to that proposed by the Consumer Advocate and the Companies. First, the quarterly adjustment would reduce much of the regulatory lag associated with recovery of the addition of capital investment by the Companies. As stated during the panel hearings, regulatory lag has been one of the primary reasons that the Companies have not been able to achieve their authorized rates of return even during test years.

Second, it addresses the Commission's concern that, under the Consumer Advocate's and Companies' proposal, customers will begin to pay for the recovery of capital investment anticipated to be made during the RAM year, i.e., still not placed into service. With this proposal, the rate base RAM is based on investments that have actually been placed into service. However, this mechanism does not address the Commission's concern regarding cost overruns for major projects (projects costing more than \$2.5M) since the rate base RAM will be based on the recorded amounts of all of the plant additions, prior to a review in a rate case. To address this concern, the Companies propose that for the purposes of developing the rate base RAM, the recorded amounts for major projects that are placed into service should be revised to only reflect the recorded amounts but limited to their last authorized amounts, e.g., as authorized by the Commission in its approval in the G.O.7 proceedings. This is similar to the Consumer Advocate's and Companies' rate base RAM proposal⁴. Thus, by limiting the major project amounts, the probability is minimized that customers

⁴ Joint Final Statement of Position of the HECO Companies and Consumer Advocate, filed May 11, 2009, and revised in the Companies' and Consumer Advocate's letter with subject "Revised and New Exhibits for the Joint SOP", dated June 25, 2009.

would be paying for costs that may be disallowed in a future rate case. This, in turn, reduces the probability that refunds to customers will be required, partially addressing the Commission's concern regarding the fact that customers who pay for the rate base RAM may not actually be refunded these amounts if certain investment costs are disallowed.

- a. The Companies' calculations of the inter-rate case revenue adjustments equal to the authorized return and depreciation on net additions related to system reliability are shown in Attachment 1, row 45, pages 1 (HECO), 2 (HELCO), and 3 (MECO)⁵. The resulting ROEs for the case with "RPC with reset" are shown on Attachment 1, row 83, and the case without "RPC with reset" are shown on Attachment 1, row 123. For comparison purposes, the Companies' calculations of the inter-rate case revenue adjustments equal to the authorized return and depreciation on net additions related to customer addition, requested in sub-part b of this instant information request, are also shown in Attachment 1, on row 46. The resulting ROEs for the case with "RPC with reset" are shown on Attachment 1, row 84, and the case without "RPC with reset" are shown on Attachment 1, row 124.

In order to estimate the inter-rate case revenue adjustments shown in Attachment 1 related to system reliability and customer additions, the Companies classified total plant additions for the historical years, 2004 through 2008, and the forecast years, 2009 through 2013, into five different categories: (1) system reliability; (2) customer additions; (3) renewable energy related not to be recovered through a

⁵ For the remainder of this IR, only Attachment 1 and the respective row number will be notated, with the understanding that page 1 would have HECO's numbers, page 2 would have HELCO's numbers, and page 3 would have MECO's numbers.

separate surcharge; (4) renewable energy related to be recovered through a separate surcharge; and (5) other. Due to time constraints, classifications were primarily judgmentally completed by Finance personnel reviewing only the name/description of the project/program. The classifications were not confirmed by operations departments or project managers. With the exception of HECO's 2009 plant additions which were based on the Rate Case Update, HECO-WP-1701, from HECO's 2009 test year rate case (Docket No. 2008-0083), the Companies' plant additions data for the forecast years, 2009 through 2013, are consistent with the 2009 capital expenditures budgets filed by the Companies on March 4, 2009 and presented by the Companies to the Commission and Consumer Advocate on July 15, 2009, and were from the same budgets used to develop the revenue and expenses data included in the Companies' response to PUC-IR-14, revised June 29, 2009. Each company's annual project list with associated costs and categorization is provided as Attachment 2.

The system reliability category was defined to include projects that appear to directly improve or maintain system reliability. Examples of system reliability projects include new generating plant to increase capacity and replacement of transmission plant lines. As noted in the Companies' response to PUC-IR-50, the costs of system reliability projects could be accounted for in utility plant accounts in any functional category (i.e., production, transmission, distribution or general plant). Please note that some of the Companies' projects provide both reliability benefits and support the attainment of requirements established in Act 155. Examples of this are all firm capacity renewable utility projects and utility work to integrate renewable IPP projects. Because we do not currently allocate project costs between these categories, for the purposes of responding

to these information requests we have generally classified projects which provide both benefits into the reliability category. For example, HECO's newly commissioned CIP-1 generating unit has been placed in the reliability category and therefore O&M expenses associated with the unit are treated as reliability expenses. However, the unit is planned for operation on biofuel, which contributes to the RPS percentage and the unit possesses operational characteristics (quick starting, fast ramping, etc.) which will help the system integrate greater levels of intermittent wind and solar energy generated. Therefore this project and its associated O&M expenses support the attainment of Act 155 objectives as well and included in the renewable category discussed below.

The customer additions category was defined to include projects which appear to be the result of customer service requests, such as distribution lines in new subdivisions and customer requested relocation of poles. As noted in the Companies' response to PUC-IR-50, the costs of customer addition projects could be accounted for in utility plant accounts in any functional category (i.e., production, transmission, distribution or general plant).

The renewable category was defined to include projects which directly contribute to RPS and EEPS values as defined in Act 155. This category was further broken down to distinguish projects that may be subject to recovery through a surcharge mechanism. As noted in the Companies' response to PUC-IR-50, the costs of renewable projects could be accounted for in utility plant accounts in any functional category (i.e., production, transmission, distribution or general plant).

The "other" category was defined to include projects involving the acquisition of communications equipment, information technology equipment, vehicles, and office

furniture, fixtures and equipment. The projects in this category have less direct impact on system reliability than the projects classified in the system reliability category. However, these projects are necessary in order for the Companies to provide reliable electric service. Like the projects that were classified into the system reliability category, some of these projects also support RPS and EEPS values as defined in Act 155 as well. For purposes of the response to this information request, the costs for projects in this "other" category were excluded from the calculation of the revenue requirements for system reliability projects.

Attachment 3 summarizes the Companies' calculation of the net plant additions for purposes of developing the system reliability and customer additions rate base RAMs.

- b. Please see the Companies' response to subpart a above.
- c. The Companies' calculations of the inter-rate case revenue adjustments equal to the difference in operating and maintenance costs associated with complying with Act 155 from those included in base rates are shown in Attachment 1, row 47. As stated earlier, the Act 155 RAM amounts were calculated only for the prospective years.

Attachment 4 contains the instructions which were distributed to the operational departments / divisions to complete Attachment 5 in order to generate the requested estimated Act 155 amounts. Attachment 6 is the consolidated response from the affected departments / divisions which provided the bases for the calculation of the RAMs. The Companies found subpart c to be extremely challenging in quantifying the incremental O&M expenses not in base rates associated with compliance with Act 155. Because historical O&M expenses are not identified as supporting renewable energy or DSM objectives specifically, estimating prospective incremental costs was also difficult.

Feedback from the operational departments / divisions indicated that it would take up to two months to compile historical and prospective data to respond to this IR. Given the time constraints, interpretation of what is Act 155 related and what assumptions should be used for future projects were made by individual managers at the Companies and may not be totally consistent with one another. However, if the Commission were to adopt this methodology as a basis for determining an O&M RAM, the HECO Companies would work with the Commission to ensure consistency and transparency of methodology.

The Companies' calculations of the inter-rate case revenue adjustments equal to the difference in operating and maintenance costs associated with complying with Act 155, from those included in base rates, are shown in Attachment 1, row 47. The resulting ROEs for the case with "RPC with reset" are shown on Attachment 1, row 85, and the case without "RPC with reset" are shown on Attachment 1, row 125.

- d. Please see Attachment 7 for the O&M expense RAM adjustments included in the HECO Companies' responses to PUC-IR-14 for years 2009 through 2013 and in Attachment 1.(c) in the HECO Companies' letter to the Commission in response to "Questions from Panel Hearings Held on June 29 to July 1, 2009", filed on July 13, 2009 for years 2004 through 2008. These O&M RAMs are also shown on Attachment 1, row 48. The resulting ROEs for the case with "RPC with reset" are shown on Attachment 1, row 86, and the case without "RPC with reset" are shown on Attachment 1, row 126.
- e. The subpart only includes calculations for the prospective years due to inclusion of subpart
 - c. These revenue adjustments are also shown on Attachment 1, row 55. The resulting ROEs for the case with "RPC with reset" are shown on Attachment 1, row 87, and the case without "RPC with reset" are shown on Attachment 1, row 127.

- f. The subpart's revenue adjustments are also shown on Attachment 1, row 56. The resulting ROEs for the case with "RPC with reset" are shown on Attachment 1, row 88, and the case without "RPC with reset" are shown on Attachment 1, row 128.

Attachment 8 is a summary of the ROE calculations comparing the HECO Companies and the Consumer Advocate's jointly proposed sales decoupling, rate base and O&M RAMs, with the NRRI's proposed sales decoupling/RPC adjustments, and modified RAMs included in subparts a to f of this IR. Please see notes 1 and 2 of Attachment 8 for additional discussion on the ROE results.

**Confidential Information Deleted
Pursuant To Protective Order, Filed on
January 6, 2009.**

PUC-IR-52
DOCKET NO. 2008-0274
ATTACHMENT 1
PAGES 1-3 OF 3

Attachment 1 contains confidential information and is provided subject to
the Protective Order filed on January 6, 2009 in this proceeding.

HECO
Plant Addition Classification in Response to PUC-IR-52
 (\$ Thousands)

Plant Addition Classification:	Recorded						Forecast				
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Reliability	41,160	108,378	70,394	98,969	67,358	67,985	254,184	164,185	76,763	182,743	119,717
Customer Addition	19,756	28,441	26,396	20,169	28,060	19,249	19,500	38,292	26,997	37,080	37,359
REIP/Renewable Recoverable	-	-	-	-	-	-	-	354	11,822	11,806	12,006
REIP/Renewable Non-recoverable	-	3	-	-	344	198	2,270	74	75	76	76
Other	9,697	9,753	12,740	11,900	10,332	9,026	12,379	5,637	7,178	9,853	49,572
Total	70,613	146,575	109,530	131,038	106,095	96,458	288,334	208,542	122,835	241,557	218,730

HECO Plant Addition Classification Methodology
 Refer to the Company's response at PUC-IR-52 for classification methodology.

HECO
Plant Depreciation Calculation in Response to PUC-IR-52
(\$ Thousands)

Plant Addition Classification:	FTE											
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Reliability	-	1,516	2,820	2,432	4,018	2,104	1,854	5,011	4,901	2,145	3,124	3,293
Customer Addition	-	807	1,222	1,132	863	1,222	822	841	1,473	1,164	1,599	1,611
REIP/Renewable Recoverable	-	-	-	-	-	-	-	15	15	510	509	518
REIP/Renewable Non-recoverable	-	-	-	-	-	-	15	9	41	3	3	3
Other	-	627	788	1,011	906	774	623	775	353	450	617	3,105
Total	-	2,950	4,830	4,575	5,787	4,116	3,397	6,667	6,745	4,272	5,852	8,529

HECO Depreciation Calculation Methodology

FECCO Depreciation Calculation Methodology
Due to time constraints, the depreciation amounts for 2004-2009 were based on plant additions for the prior year and based on actual functional account depreciation composite rates applied to the plant additions categorized by functional account. For plant additions which were recorded to numerous functional accounts, categorized the plant additions based on the functional account of the majority of its costs. For depreciation amounts for 2010-2013 were based on plant additions for the prior year using the same methodology as above. The 2009 actual functional account depreciation composite rate was used in the 2010-2014 depreciation calculation.

Functional Depreciation Composite Rates Used

Steam Production	0.02798	0.01608	0.01813	0.01813	0.01797	0.01723	0.01723	0.01723	0.01723
Other Production	0.02681	0.01091	0.01087	0.01072	0.01139	0.01119	0.01119	0.01119	0.01119
Transmission	0.03082	0.02935	0.0297	0.02948	0.02912	0.02943	0.02943	0.02943	0.02943
Distribution	0.04088	0.04286	0.04304	0.04297	0.04299	0.04311	0.04311	0.04311	0.04311
General	0.06505	0.08394	0.08035	0.08035	0.07618	0.07654	0.06263	0.06263	0.06263

HECO
CIAC Addition Classification in Response to PUC-IR-52
(\$ Thousands)

CIAC Addition Classification:			Recorded			Forecast					
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Reliability	-	-	-	-	-	-	-	-	-	-	-
Customer Addition	12,440	7,794	19,449	15,860	20,821	11,342	12,458	7,771	5,937	11,809	9,769
REIP/Renewable Recoverable	-	-	-	-	-	-	-	-	-	-	-
REIP/Renewable Non-recoverable	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-
Total	12,440	7,794	19,449	15,860	20,821	11,342	12,458	7,771	5,937	11,809	9,769
HECO CIAC Addition Classification Methodology											
All CIAC additions (cash and in-kind) were classified as customer additions.											
CIAC Amortization:	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Reliability	-	-	-	-	-	-	-	-	-	-	-
Customer Addition	415	260	648	529	694	378	415	259	198	394	
REIP/Renewable Recoverable	-	-	-	-	-	-	-	-	-	-	
REIP/Renewable Non-recoverable	-	-	-	-	-	-	-	-	-	-	
Other	-	-	-	-	-	-	-	-	-	-	
Total	415	260	648	529	694	378	415	259	198	394	

2003 Recorded Plant Additions
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Depreciation for 2003 Additions

Project No. and Name	Amount	Classification	Func Cat	Depr Rate	2004 Depr	Classification Depr Rate
P0000474 WSC Privatization	Total 441,390	Customer Adds	Distribution	0.04088	18,044	
P1510000 Misc OH Svc & Extn (CID)	Total 1,530,604	Customer Adds	Distribution	0.04088	62,571	
P1580000 Minor OH Dist Addn (CID)	Total 605,263	Customer Adds	Distribution	0.04088	24,743	
P1670000 P&I&Test Meters & Mtr Eq	Total 627,903	Customer Adds	Distribution	0.04088	25,669	
P1680000 Tsf & Equip Pur/Svc CID	Total 4,683,831	Customer Adds	Distribution	0.04088	191,475	
P1690000 Minor T&D Customer Programs	Total 110,298	Customer Adds	Transmission	0.03082	3,399	
P1700000 Misc UG Svc & Extn (CID)	Total 10,965,017	Customer Adds	Distribution	0.04088	448,250	
P1820000 Minor UG Addns (CID)	Total 791,608	Customer Adds	Distribution	0.04088	32,361	
	19,755,914	Customer Adds Total			806,512	0.04082
P0000189 Upg Makai Elev Ctrls-King	Total (11,648)	Other	General	0.06505	(758)	
P0000342 ITS Replace UPS	Total 194,188	Other	General	0.06505	12,632	
P0000349 Meter Reading System Replacement	Total 337,797	Other	General	0.06505	21,974	
P0000377 Special Use Equip/Laptops	Total 241,608	Other	General	0.06505	15,717	
P0000500 Misc Office Furniture	Total 63,406	Other	General	0.06505	4,125	
P0000501 Misc Office Equipment	Total 181,674	Other	General	0.06505	11,818	
P0000502 Waialua Minor Gen Addns	Total 0	Other	General	0.06505	0	
P0000503 Ward Ave Minor Addns	Total 3,351	Other	General	0.06505	218	
P0000504 King St Minor Addns	Total 1,202	Other	General	0.06505	78	
P0000506 Ward A/C Equip Repl	Total 3,288,207	Other	General	0.06505	213,898	
P0000531 HECCO SWAT Team-Ohana	Total 31,845	Other	General	0.06505	2,072	
P0000561 Class Load Study	Total 149,822	Other	Distribution	0.04088	6,125	
P0000612 Ward Whse 04 fire sprinkler	Total 201,814	Other	General	0.06505	13,128	
P0000744 Call Center Relocation - GP	Total 204,822	Other	General	0.06505	13,324	
P0000745 Call Center Relocation - FE	Total 238,756	Other	General	0.06505	15,531	
P0000749 Project Ellipse (hardware)	Total 28,647	Other	General	0.06505	1,863	
P0000780 Field Svc/Call Entry Device	Total 19,104	Other	General	0.06505	1,243	
P1081000 Capitalized Tools & Equip	Total 974,424	Other	General	0.06505	63,386	
P1243000 Purchase PC's-ITS	Total 1,082,671	Other	General	0.06505	70,428	
P1244000 Printers/Copiers/Faxes	Total 211,232	Other	General	0.06505	13,741	
P1250000 Vehicle Purchases	Total 2,049,479	Other	General	0.06505	133,319	
P1251000 Misc Tel Eqty (NT)	Total 1,275	Other	General	0.06505	83	
P1505000 Other Misc Comm Fac (SOD)	Total 203,627	Other	General	0.06505	13,246	
	9,697,305	Other Total			627,189	0.06468
P0000052 Kahe Fire Wtr Storage Tank	Total 479,298	Reliability	Steam Production	0.02798	13,411	
P0000057 H9 Blr Elec Warm Sys	Total 230,946	Reliability	Steam Production	0.02798	6,462	
P0000058 W7 Data Acq and Monitor	Total 341	Reliability	Steam Production	0.02798	10	
P0000059 W8 Data Acq and Monitor	Total 2,812	Reliability	Steam Production	0.02798	79	
P0000079 K6 Boiler Controls Upgrade	Total 190,263	Reliability	Steam Production	0.02798	5,324	
P0000085 K6 Blr Wtr Chem Alyz Repl	Total 1,533	Reliability	Steam Production	0.02798	43	
P0000089 Pwr Quality Monitor Install	Total 7,838	Reliability	Distribution	0.04088	320	
P0000095 Kahe 5 Sootblower Ctls Upg	Total 663	Reliability	Steam Production	0.02798	19	
P0000120 Corr (Inc Emg) OH Trsf Rpl	Total 358,345	Reliability	Distribution	0.04088	14,649	
P0000121 Corr (Inc Emg) UG Trsf Rpl	Total 388,280	Reliability	Distribution	0.04088	15,873	
P0000122 Balance adjust Total	(4,893)	Reliability	Distribution	0.04088	(200)	
P0000122 Cor (Inc Emg) Mis Cable Rpl	Total 2,244,105	Reliability	Distribution	0.04088	91,739	
P0000123 Corr (Inc Emg) OH Dist Rpl	Total 1,845,621	Reliability	Distribution	0.04088	75,449	
P0000124 Cor (Inc Emg) OH Subtrn Rpl	Total 763,335	Reliability	Transmission	0.03082	23,526	
P0000135 Keahala Rd Widening	Total 3,881	Reliability	Distribution	0.04088	159	
P0000152 Kamoku Subst T2 Transformer	Total 48,223	Reliability	Transmission	0.03082	1,486	
P0000162 Kakaako ID9	Total 1,580,287	Reliability	Distribution	0.04088	64,602	
P0000195 H9 Boiler Safety Valve Upg	Total 56,513	Reliability	Steam Production	0.02798	1,581	
P0000206 Waiau Tk1 Roof	Total 298,968	Reliability	Steam Production	0.02798	8,365	
P0000212 W7 Cycle Chem Instr.	Total 488,791	Reliability	Steam Production	0.02798	13,676	
P0000220 W9&W10 Cardox Fire Prot	Total 2,488	Reliability	Non-Steam Prod	0.02610	65	
P0000223 W3&W4 Control Rm Roof	Total 75,718	Reliability	Steam Production	0.02798	2,119	
P0000226 H8&9 Instrument Air Compr	Total 760	Reliability	Steam Production	0.02798	21	
P0000229 K6 SH & RH Attemp Spray	Total 40,001	Reliability	Steam Production	0.02798	1,119	
P0000255 W4 Stack & Breeching Rpl	Total 124	Reliability	Steam Production	0.02798	3	
P0000262 W5 Data Acq & Monitoring	Total 2,110	Reliability	Steam Production	0.02798	59	
P0000263 W6 Data Acq & Monitoring	Total 114	Reliability	Steam Production	0.02798	3	
P0000264 H9 Data Acq & Monitoring	Total 242,668	Reliability	Steam Production	0.02798	6,790	
P0000266 K6 Data Acq & Monitoring	Total 12,184	Reliability	Steam Production	0.02798	341	
P0000269 Waiau Gantry Crane Catwalks	Total 170,711	Reliability	Steam Production	0.02798	4,777	
P0000274 W3&4 Boller Bldg ReRoof	Total 448	Reliability	Steam Production	0.02798	13	
P0000289 Halawa Cap Bank Brk 4436	Total 129,643	Reliability	Transmission	0.03082	3,996	
P0000290 Halawa Cap Bank Brk 4492	Total 156,675	Reliability	Transmission	0.03082	4,829	
P0000298 HPP WWTF Batch Tnk Mods	Total 4,847	Reliability	Steam Production	0.02798	136	
P0000331 H8 Turbine Steam Gland Conv	Total 259,795	Reliability	Steam Production	0.02798	7,269	
P0000390 Kahala Kua 2ndary Repl	Total 564,337	Reliability	Distribution	0.04088	23,070	
P0000402 Ka Iwi 12kV OH to UG, ph1, inc1	Total 116,958	Reliability	Distribution	0.04088	4,781	

2003 Recorded Plant Additions
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Depreciation for 2003 Additions

Project No. and Name	Amount	Classification	Func Cat	Depr Rate	2004 Depr	Classification Depr Rate
P0000415 CPP Access Control	Total 1,543	Reliability	General	0.06505	100	
P0000416 W5 Hydrogen Purity Meter	Total 64,576	Reliability	Steam Production	0.02798	1,807	
P0000437 Waiau FWH #64 Replacement	Total 108	Reliability	Steam Production	0.02798	3	
P0000438 Waiau FWH #74 Replacement	Total 52	Reliability	Steam Production	0.02798	1	
P0000439 Waiau FWH #63 Replacement	Total 1,968	Reliability	Steam Production	0.02798	55	
P0000440 W41 Trvl Scrn Rpl	Total 132,452	Reliability	Steam Production	0.02798	3,706	
P0000443 W32 Trvl Scrn Rpl	Total 142,064	Reliability	Steam Production	0.02798	3,975	
P0000448 Power Plant UHF Radios	Total 10	Reliability	General	0.06505	1	
P0000457 H9 Stack Lining	Total 209,347	Reliability	Steam Production	0.02798	5,858	
P0000461 Waiau 5 ERV Replacement	Total 971	Reliability	Steam Production	0.02798	27	
P0000464 Waiau 5 Wastewater Sump Upgr	Total 260,637	Reliability	Steam Production	0.02798	7,293	
P0000475 K5&6 Control Room AC	Total 4,627	Reliability	Steam Production	0.02798	129	
P0000479 Kahe 3&4 Sootblower Platform	Total 146,599	Reliability	Steam Production	0.02798	4,102	
P0000481 K1 Fan Sound Barrier	Total 2,972	Reliability	Steam Production	0.02798	83	
P0000482 KPP FWH #33 Replacement	Total 252,589	Reliability	Steam Production	0.02798	7,067	
P0000483 WPP FWH #54 Replacement	Total 26,774	Reliability	Steam Production	0.02798	749	
P0000488 H9 Hydrogen Purity Meter	Total 60,858	Reliability	Steam Production	0.02798	1,703	
P0000511 BFP Automated Test	Total 9,350	Reliability	Steam Production	0.02798	262	
P0000512 Kewalo-Kamoku 138kv LG Elec	Total 154,099	Reliability	Transmission	0.03082	4,749	
P0000515 Ko Olina Cable Installation	Total 351,259	Reliability	Distribution	0.04088	14,359	
P0000536 Kaimuki Traffic Calming	Total 267,947	Reliability	Distribution	0.04088	10,954	
P0000577 Camp Smith #2 Tsf 46KV Ln Ext	Total 90,071	Reliability	Transmission	0.03082	2,776	
P0000578 Camp Smith #2 6.25MVA Tsf	Total 1,266,212	Reliability	Distribution	0.04088	51,763	
P0000582 H9 Turbine Supv Instr	Total 172,339	Reliability	Steam Production	0.02798	4,822	
P0000583 W4 IDHS Fan Motor Replacemt	Total 154,030	Reliability	Steam Production	0.02798	4,310	
P0000588 Milliani Mauka 46kV Reloc	Total (4,223)	Reliability	Transmission	0.03082	(130)	
P0000589 Spare 15kv Switchgear	Total 228,850	Reliability	Distribution	0.04088	9,355	
P0000590 PP Security Hardware Upgrade	Total 123,089	Reliability	Steam Production	0.02798	3,444	
P0000593 K1 Gen Partial Discr Monitor	Total 239	Reliability	Steam Production	0.02798	7	
P0000596 HECO/Tesoro Oil Pipeline	Total 40,568	Reliability	Steam Production	0.02798	1,135	
P0000599 EMS UPS Replacement	Total 460,256	Reliability	General	0.06505	29,940	
P0000601 Gen Prot Relay Replacement	Total 125,545	Reliability	Steam Production	0.02798	3,513	
P0000602 Camp Smith #2 12kv Ln & Pr Mg	Total 79,075	Reliability	Distribution	0.04088	3,233	
P0000604 W4 Aux TFMR Replacement	Total 170,563	Reliability	Steam Production	0.02798	4,772	
P0000606 WB Boiler Guardrail Upgrade	Total 248	Reliability	Steam Production	0.02798	7	
P0000607 W7 Boiler Str Railing Upgrad	Total 50,213	Reliability	Steam Production	0.02798	1,405	
P0000614 City Hall Vlt 11	Total 339,900	Reliability	Distribution	0.04088	13,895	
P0000617 W5-8 Turb Deck Drain Piping	Total 138,915	Reliability	Steam Production	0.02798	3,887	
P0000645 Williwil Ckt Reliability Impr	Total 177,554	Reliability	Distribution	0.04088	7,258	
P0000662 Retaining Wall @ K1-4 Stack	Total 174,630	Reliability	Steam Production	0.02798	4,886	
P0000663 W71 F.O. Heater Tube Bundle	Total 80,624	Reliability	Steam Production	0.02798	2,256	
P0000668 W5 Control/DC Cables to Swyd	Total 171,318	Reliability	Steam Production	0.02798	4,793	
P0000685 Waiau Start-Up Cable Réplace	Total 273,148	Reliability	Steam Production	0.02798	7,643	
P0000704 Security/Halawa Meva Site	Total 8,194	Reliability	Transmission	0.03082	253	
P0000705 Security/Makalapa Meva	Total 4,315	Reliability	Transmission	0.03082	133	
P0000706 Security/Koolau Meva Site	Total 2,714	Reliability	Transmission	0.03082	84	
P0000707 Security/Pukele Meva Site	Total 3,146	Reliability	Transmission	0.03082	97	
P0000708 IVR/ACD/CTI Ph1	Total 203,924	Reliability	General	0.06505	13,265	
P0000709 IVR/ACD/CTI Ph2	Total 1,520,891	Reliability	General	0.06505	98,934	
P0000719 Kahe Fire Line for Wtr Tank	Total 28,909	Reliability	Steam Production	0.02798	809	
P0000720 Forrest Ave Realignment OH	Total 165,072	Reliability	Distribution	0.04088	6,748	
P0000721 Archer Sub Basement Flooding	Total 118,759	Reliability	Transmission	0.03082	3,660	
P0000726 West Loch Sub	Total 435,638	Reliability	Distribution	0.04088	17,809	
P0000728 Makakilo#2 Tsf Replacement	Total 101,924	Reliability	Distribution	0.04088	4,167	
P0000729 Makakilo 4 12.47kV Feeder	Total 41,456	Reliability	Distribution	0.04088	1,695	
P0000730 McCully Ckts Reconnection	Total 1,687	Reliability	Distribution	0.04088	69	
P0000731 CEIP46 46kV Extension	Total 139,203	Reliability	Transmission	0.03082	4,290	
P0000737 Chlorine Dioxide Systm	Total 179,130	Reliability	Steam Production	0.02798	5,012	
P0000739 W5 Generator Stator Rewind	Total 1,046,554	Reliability	Steam Production	0.02798	29,283	
P0000742 Security Command Center	Total 317,229	Reliability	General	0.06505	20,636	
P0000751 H9 LP L-1 Turb/End Blades	Total 231,477	Reliability	Steam Production	0.02798	6,477	
P0000752 H9 LP L-1 Col/End Blades	Total 218,131	Reliability	Steam Production	0.02798	6,103	
P0000753 H9 LP L-0 Turb/End Blades	Total 362,308	Reliability	Steam Production	0.02798	10,137	
P0000754 H9 LP L-0 Col/End Blades	Total 360,933	Reliability	Steam Production	0.02798	10,099	
P0000755 H9 HP Curtis R1 Blades	Total 77,326	Reliability	Steam Production	0.02798	2,164	
P0000756 H9 HP Curtis R2 Blades	Total 79,393	Reliability	Steam Production	0.02798	2,221	
P0000757 H9 HP Stg 2 Rotor Blades	Total 52,671	Reliability	Steam Production	0.02798	1,474	
P0000758 H9 HP Stg 3 Rotor Blades	Total 53,729	Reliability	Steam Production	0.02798	1,503	
P0000759 H9 HP Stat Rows C1-C4 Blades	Total 223,918	Reliability	Steam Production	0.02798	6,265	
P0000760 H9 Curtis Stationary Blades	Total 62,696	Reliability	Steam Production	0.02798	1,754	

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Depreciation for 2003 Additions

Project No. and Name	Amount	Classification	Func Cat	Depr Rate	2004 Depr	Classification Depr Rate
P0000761 H9 LP Cyl Liner/Retainer	Total 172,834	Reliability	Steam Production	0.02798	4,836	
P0000762 H9 L-2 Turb/End Blades	Total 175,941	Reliability	Steam Production	0.02798	4,923	
P0000763 H9 L-2 Col/End Blades	Total 179,845	Reliability	Steam Production	0.02798	5,032	
P0000768 Ft Weaver Tsf#2 circuiting	Total 115,252	Reliability	Distribution	0.04088	4,712	
P0000771 H81 TVL Screen Repl	Total 150,626	Reliability	Steam Production	0.02798	4,215	
P0000773 H8 HP/LP Turbine Blading	Total 2,219,075	Reliability	Steam Production	0.02798	62,090	
P0000776 HECO UF Load Shed Upd Distr	Total 8,711	Reliability	Distribution	0.04088	356	
P0000778 Waialua #2 12.5MVA Tsf Repl	Total 488,659	Reliability	Distribution	0.04088	19,976	
P0000779 Sec Command Ctr Equip	Total 204,981	Reliability	General	0.06505	13,334	
P0000881 Kahe-Mikilua 46kV Reconduct	Total 137,917	Reliability	Transmission	0.03082	4,251	
P0000882 Waialau WW Reline Cells 1 & 2	Total 214,567	Reliability	Steam Production	0.02798	6,004	
P0000893 H8 Generator Rotor Rewind	Total 800,265	Reliability	Steam Production	0.02798	22,391	
P1260000 C&M Recon UG Dist Cable	Total 1,173,957	Reliability	Distribution	0.04088	47,991	
P1370000 Distr R/W Purch (Blanket)	Total 15,185	Reliability	Land	0.00000	0	
P1373000 46kv R/W Purch (blanket)	Total 167,326	Reliability	Land	0.00000	0	
P1429000 Emergency Power Plant	Total 28,228	Reliability	Steam Production	0.02798	790	
P1470000 Minor Trans Sub Addns	Total 271,694	Reliability	Transmission	0.03082	8,374	
P1480000 Minor Dist Sub Addns	Total 205,426	Reliability	Distribution	0.04088	8,398	
P1500000 Misc CM Fac-Op & Ctrl (TD)	Total 619,015	Reliability	General	0.06505	40,267	
P1789000 Preventive OH Transf Repl	Total 115,498	Reliability	Distribution	0.04088	4,722	
793000 Preventive UG Transf Repl	Total 340,521	Reliability	Distribution	0.04088	13,920	
810000 Prev Misc Cable Failure Rpl	Total 1,636,003	Reliability	Distribution	0.04088	66,880	
81870000 Power Station Misc	Total 781,153	Reliability	Steam Production	0.02798	21,857	
P1990000 Minor T&D System Programs	Total 245,786	Reliability	Distribution	0.04088	10,048	
P1991000 Minor Dist Design UG Addns	Total 659	Reliability	Distribution	0.04088	27	
P3400000 Prev OH Dist Repl	Total (92,331)	Reliability	Distribution	0.04088	(3,775)	
P3401000 Prev OH Subtrans Repl	Total 2,200,602	Reliability	Transmission	0.03082	67,823	
P3402000 Prev OH Trans Repl	Total 859,384	Reliability	Transmission	0.03082	26,486	
P4150000 Monitoring Services	Total 83,255	Reliability	General	0.06505	5,416	
P4672000 Kewalo A&B 25KV UG Pilkol	Total 1,500,188	Reliability	Distribution	0.04088	61,328	
P4673000 Kewalo A&B 25KV UG Kamakee	Total 6,849	Reliability	Distribution	0.04088	280	
P4678000 Kewalo 30/50 MVA Tsf	Total 24,780	Reliability	Distribution	0.04088	1,013	
P4760000 Kewalo-Kamoku 138KV UG Ln	Total 1,551	Reliability	Transmission	0.03082	48	
P4761000 Kewalo Sub (Kewalo-Kamoku)	Total 5,972	Reliability	Transmission	0.03082	184	
P4762000 Kamoku Sub Kewalo Term	Total 205,436	Reliability	Transmission	0.03082	6,332	
P4763000 Kewalo-Kamoku Fiber Optic	Total 1,380	Reliability	General	0.06505	90	
P4764000 Kamoku EMS	Total 12,150	Reliability	Transmission	0.03082	374	
P4850000 Kamoku-Pukele 138KV OH Ln	Total 0	Reliability	Transmission	0.03082	0	
P6450000 Walau Wtr Treamtment Sys	Total (10,130)	Reliability	Steam Production	0.02798	(283)	
P6740000 Iwilei Ntwk Bkr Failure	Total 174,609	Reliability	Distribution	0.04088	7,138	
P6862000 Kahe Bus B Bkup Prot	Total 933,364	Reliability	Transmission	0.03082	28,766	
P7430000 Kahe 1-4 Cntrl Hse Expnsn	Total 681,529	Reliability	Transmission	0.03082	21,005	
P8300000 Ward-Tripler MW Repl	Total 28,787	Reliability	General	0.06505	1,873	
P8302000 Walau-PM MW Replace	Total 11,919	Reliability	General	0.06505	775	
P8304000 CEIP-Kahe MW Replace	Total 24,155	Reliability	General	0.06505	1,571	
P9027000 H9 Primary Fuel Oil Pumps	Total 108,482	Reliability	Steam Production	0.02798	3,035	
P9036000 Kakaako ID7 Kamakao St Conv	Total 70	Reliability	Distribution	0.04088	3	
P9345000 Iwilei/HPP Pipeline Rnv Ph 2	Total 29,276	Reliability	Steam Production	0.02798	819	
P9453000 H9 Coriolis FO Flowmeter	Total 93,628	Reliability	Steam Production	0.02798	2,620	
P9492000 K6 A/H Acoustic Sootblower	Total 372,784	Reliability	Steam Production	0.02798	10,430	
P9542000 K3 DAS	Total 495	Reliability	Steam Production	0.02798	14	
P9548000 Kahe-Kahe SCADA Comm	Total 1,530	Reliability	General	0.06505	100	
P9549000 Mik 1-Miki 1 SCADA Comm	Total 521	Reliability	General	0.06505	34	
P9550000 Makaha 2-Mauka SCADA Comm	Total 218,997	Reliability	General	0.06505	14,246	
P9599000 Mik 2-Miki 3 SCADA Comm	Total 1,130	Reliability	General	0.06505	73	
	41,159,508	Reliability Total			1,516,263	
	70,612,727	Grand Total			2,949,964	0.03684

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PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2005 Depr	Classification Depr Rate
P0000474 WSC Privatization	Total 3	Customer Add	Distribution	0.04286	0.13	
P0000886 Wal-Mart Sam's Keeaumoku	Total 1,162	Customer Add	Distribution	0.04286	49.80	
P0001057 Energy Projects Relocation	Total 288	Customer Add	General	0.08394	24.17	
P1510000 Misc OH Svc & Extn (CID)	Total 1,900	Customer Add	Distribution	0.04286	81.43	
P1580000 Minor OH Dist Addn (CID)	Total 1,204	Customer Add	Distribution	0.04286	51.60	
P1670000 P&I&Test Meters & Mtr Eq	Total 718	Customer Add	Distribution	0.04286	30.77	
P1680000 Tsf & Equip Pur/Svc CID	Total 4,227	Customer Add	Distribution	0.04286	181.17	
P1690000 Minor T&D Customer Programs	Total 622	Customer Add	Transmission	0.02935	18.26	
P1700000 Misc UG Svc & Extn (CID)	Total 16,278	Customer Add	Distribution	0.04286	697.68	
P1800000 Minor OH To UG Conv (CID)	Total (11)	Customer Add	Distribution	0.04286	(0.47)	
P1820000 Minor UG Addns (CID)	Total 2,050	Customer Add	Distribution	0.04286	87.86	
	28,441	Customer Add Total			1,222.41	0.04298
P0000349 Meter Reading System Replacement	Total -	Other	General	0.08394	0.00	
P0000350 Field Service System Replacement	Total 466	Other	General	0.08394	39.12	
P0000499 Ward A/C Imprv Phase II	Total -	Other	General	0.08394	0.00	
P0000501 Misc Office Equipment	Total 54	Other	General	0.08394	4.53	
P0000506 Ward A/C Equip Repl	Total 6	Other	General	0.08394	0.50	
P0000531 HECO Team-Ohana	Total -	Other	General	0.08394	0.00	
P0000561 Class Load Study	Total -	Other	Distribution	0.04286	0.00	
P0000586 King St Attic	Total -	Other	General	0.08394	0.00	
P0000594 Ward I Bldg access upgrade	Total 98	Other	General	0.08394	8.23	
P0000612 Ward Whse 04 fire sprinkler	Total -	Other	General	0.08394	0.00	
P0000652 Misc Mainframe Hardware	Total 72	Other	General	0.08394	6.04	
P0000653 Collaborative Communications	Total 72	Other	General	0.08394	6.04	
P0000666 Waiau Maint Shop Office	Total 462	Other	Steam Production	0.01808	8.35	
P0000710 King and Ward PBXs	Total 1,947	Other	General	0.08394	163.43	
P0000712 Archer Entry Gate	Total 76	Other	General	0.08394	6.38	
P0000721 Archer Sub Basement Flooding	Total 12	Other	Transmission	0.02935	0.35	
P0000744 Call Center Relocation - GP	Total -	Other	General	0.08394	0.00	
P0000851 Purchasing Warehouse Renov	Total 569	Other	General	0.08394	47.76	
P0000877 Payment Extraction Equip	Total 41	Other	General	0.08394	3.44	
P0000878 Check Processing Upgrade	Total 48	Other	General	0.08394	4.03	
P0000928 Ward Lobby - Security Imprv	Total 22	Other	General	0.08394	1.85	
P0001014 Security CCTV System	Total 231	Other	General	0.08394	19.39	
P0001023 ACCESS SYSTEM	Total 171	Other	General	0.08394	14.35	
P0001058 Ward Ave Electronic Key Box	Total 184	Other	General	0.08394	15.44	
P0001071 Data Center Cabinets	Total 178	Other	General	0.08394	14.94	
P1081000 Capitalized Tools & Equip	Total 968	Other	General	0.08394	81.25	
P1243000 Purchase PC's-ITS	Total 1,291	Other	General	0.08394	108.37	
P1244000 Printers/Copiers/Faxes	Total 271	Other	General	0.08394	22.75	
P1250000 2005 Vehicle Budget	Total 1,963	Other	General	0.08394	164.77	
P1251000 Misc Tel Eqpt (INT)	Total 2	Other	General	0.08394	0.17	
P1500000 Misc CM Fac-Op & Ctrl (TD)	Total 547	Other	General	0.08394	45.92	
P1505000 Other Misc Comm Fac (SOD)	Total 2	Other	General	0.08394	0.17	
	9,753	Other Total			787.58	0.08075
P0000057 H9 Bir Elec Warm Sys	Total 87	Reliability	Steam Production	0.01808	1.57	
P0000064 Waiau Fuel Pipeline Project	Total 34,496	Reliability	Steam Production	0.01808	623.69	
P0000078 K5 Boiler Controls Upgrade	Total 3,415	Reliability	Steam Production	0.01808	61.74	
P0000079 K6 Boiler Controls Upgrade	Total 62	Reliability	Steam Production	0.01808	1.12	
P0000083 K4 Bir Wtr Chem Alyz Repl	Total 433	Reliability	Steam Production	0.01808	7.83	
P0000084 K5 Bir Wtr Chem Alyz Repl	Total 412	Reliability	Steam Production	0.01808	7.45	
P0000089 Pwr Quality Monitor Install	Total 68	Reliability	Distribution	0.04286	2.91	
P0000095 Kahe 5 Sootblower Cts Upg	Total -	Reliability	Steam Production	0.01808	0.00	
P0000097 Waiau 8 Sootblower Cts Upg	Total 451	Reliability	Steam Production	0.01808	8.15	
P0000120 Corr (Inc Emg) OH Trsf Rpl	Total 475	Reliability	Distribution	0.04286	20.36	
P0000121 Corr (Inc Emg) UG Trsf Rpl	Total 420	Reliability	Distribution	0.04286	18.00	
P0000122 Cor (Inc Emg) Mis Cable Rpl	Total 3,660	Reliability	Distribution	0.04286	156.87	
P0000123 Corr (Inc Emg) OH Dist Rpl	Total 3,180	Reliability	Distribution	0.04286	136.29	
P0000124 Cor (Inc Emg) OH Subtrn Rpl	Total 342	Reliability	Transmission	0.02935	10.04	
P0000135 Keahala Rd Widening	Total 70	Reliability	Distribution	0.04286	3.00	
P0000152 Kamoku Subst T2 Transformer	Total 2	Reliability	Transmission	0.02935	0.06	
P0000204 W7 BFP Rec Ctrl Valves Upg	Total 38	Reliability	Steam Production	0.01808	0.69	
P0000206 Waiau Tk1 Roof	Total -	Reliability	Steam Production	0.01808	0.00	
P0000208 W3 Cycle Chem Instr.	Total 327	Reliability	Steam Production	0.01808	5.91	
P0000213 W8 Cycle Chem Instr.	Total 460	Reliability	Steam Production	0.01808	8.32	
P0000216 H8 Cycle Chem Instr.	Total 258	Reliability	Steam Production	0.01808	4.66	
P0000218 Waialae Nui Reliability Imp	Total 492	Reliability	Distribution	0.04286	21.09	
P0000223 W3&W4 Control Rm Roof	Total 2	Reliability	Steam Production	0.01808	0.04	
P0000228 K5 SH & RH Attemp Spray	Total 160	Reliability	Steam Production	0.01808	2.89	
P0000230 W7 SH & RH Attemp Spray	Total 91	Reliability	Steam Production	0.01808	1.65	

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PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2005 Depr	Classification Depr Rate
P0000231 W8 BFP Rec Ctrl Valves Upg	Total 43	Reliability	Steam Production	0.01808	0.78	
P0000232 W8 SH & RH Attemp Spray	Total 159	Reliability	Steam Production	0.01808	2.87	
P0000242 K4 SH & RH Attemp Spray	Total 149	Reliability	Steam Production	0.01808	2.69	
P0000254 W3 Stack & Breeching Rpl	Total 283	Reliability	Steam Production	0.01808	5.12	
P0000260 W3 Data Acc & Monitoring	Total 242	Reliability	Steam Production	0.01808	4.38	
P0000265 H8 Data Acq & Monitoring	Total 56	Reliability	Steam Production	0.01808	1.01	
P0000267 K5 Data Acq & Monitoring	Total 439	Reliability	Steam Production	0.01808	7.94	
P0000269 Waiau Gantry Crane Catwalks	Total 3	Reliability	Steam Production	0.01808	0.05	
P0000274 W3&4 Boiler Bldg ReRoof	Total 45	Reliability	Steam Production	0.01808	0.81	
P0000288 Emma 4kV Conversion	Total 539	Reliability	Transmission	0.02935	15.82	
P0000289 Halawa Cap Bank Brk 4436	Total -	Reliability	Transmission	0.02935	0.00	
P0000290 Halawa Cap Bank Brk 4492	Total 1	Reliability	Transmission	0.02935	0.03	
P0000294 Pukela Tie Breaker Repl	Total 192	Reliability	Transmission	0.02935	5.64	
P0000297 W3 Condenser Refurbishment	Total 520	Reliability	Steam Production	0.01808	9.40	
P0000298 HPP WWTF Batch Tnk Mods	Total -	Reliability	Steam Production	0.01808	0.00	
P0000303 Waiau FWH #82 Replacement	Total 287	Reliability	Steam Production	0.01808	5.19	
P0000313 W8 APH Sootblower Upgrade	Total 70	Reliability	Steam Production	0.01808	1.27	
P0000327 K4 Flue Gas O2 Analyzer	Total 98	Reliability	Steam Production	0.01808	1.77	
P0000328 K5 Flue Gas O2 Analyzer	Total 108	Reliability	Steam Production	0.01808	1.95	
P0000330 Waiau 3 Ignitor Replacement	Total 134	Reliability	Steam Production	0.01808	2.42	
P0000331 H8 Turbine Steam Gland Conv	Total -	Reliability	Steam Production	0.01808	0.00	
P0000390 Kahala Kua 2ndary Repl	Total -	Reliability	Distribution	0.04286	0.00	
P0000423 Kailua Rd UG Conversion	Total 535	Reliability	Distribution	0.04286	22.93	
P0000439 Waiau FWH #63 Replacement	Total 1	Reliability	Steam Production	0.01808	0.02	
P0000459 Waiau 3 ERV Replacement	Total 72	Reliability	Steam Production	0.01808	1.30	
P0000463 Waiau 8 ERV Replacement	Total 101	Reliability	Steam Production	0.01808	1.83	
P0000464 Waiau 5 Wastewater Sump Upgr	Total 2	Reliability	Steam Production	0.01808	0.04	
P0000466 K3&4 Service Air Compressor	Total 225	Reliability	Steam Production	0.01808	4.07	
P0000485 WPP FWH #35 Replacement	Total 761	Reliability	Steam Production	0.01808	13.76	
P0000490 H8&9 Emergency Generator	Total 4	Reliability	Steam Production	0.01808	0.07	
P0000492 K4 HP Turb Row 9-11 Blades	Total 147	Reliability	Steam Production	0.01808	2.66	
P0000507 Kam Hy Resurf Waiahole-Cr Ln	Total 1,989	Reliability	Transmission	0.02935	58.38	
P0000510 Circ Water Temp Monitors	Total 42	Reliability	Steam Production	0.01808	0.76	
P0000511 BFP Automated Test	Total 184	Reliability	Steam Production	0.01808	3.33	
P0000512 Kewalo-Kamoku 138kv UG Elec	Total 25	Reliability	Transmission	0.02935	0.73	
P0000563 Mokuone 46-12KV Substation 1	Total 1,346	Reliability	Distribution	0.04286	57.69	
P0000575 Nimitz Highway Rehabilitation	Total 206	Reliability	Distribution	0.04286	8.83	
P0000582 H9 Turbine Supv Instr	Total -	Reliability	Steam Production	0.01808	0.00	
P0000590 PP Security Hardware Upgrade	Total 129	Reliability	Steam Production	0.01808	2.33	
P0000601 Gen Prot Relay Replacement	Total 182	Reliability	Steam Production	0.01808	3.29	
P0000603 Nanaikapono OH Relocation	Total 255	Reliability	Distribution	0.04286	10.93	
P0000604 W4 Aux TFMR Replacement	Total -	Reliability	Steam Production	0.01808	0.00	
P0000605 W3 and W4 Stack Drain	Total 52	Reliability	Steam Production	0.01808	0.94	
P0000608 Sand Isle WWTP Disinfection	Total 324	Reliability	Steam Production	0.01808	5.86	
P0000611 Kaneohe Bay Dr Improvements	Total 162	Reliability	Distribution	0.04286	6.94	
P0000614 City Hall Vlt 11	Total 6	Reliability	Distribution	0.04286	0.26	
P0000624 Kahe Tank Farm Fire Main	Total 838	Reliability	Steam Production	0.01808	15.15	
P0000633 K4 Exciter/Regulator Upgrade	Total 554	Reliability	Steam Production	0.01808	10.02	
P0000638 W3 Air Heater Tube Replmnt	Total 782	Reliability	Steam Production	0.01808	14.14	
P0000651 K5 AEH Limit Switch Upgrd	Total 105	Reliability	Steam Production	0.01808	1.90	
P0000664 W3 UPS Installation	Total 172	Reliability	Steam Production	0.01808	3.11	
P0000669 Kakaako ID10	Total 533	Reliability	Distribution	0.04286	22.84	
P0000674 Waiau Start-Up SWGR Replace	Total 610	Reliability	Steam Production	0.01808	11.03	
P0000685 Waiau Start-Up Cable Replace	Total 575	Reliability	Steam Production	0.01808	10.40	
P0000690 W5 Annunciator Upgrade	Total 176	Reliability	Steam Production	0.01808	3.18	
P0000709 IVR/ACD/CTI Ph2	Total -	Reliability	General	0.08394	0.00	
P0000719 Kahe Fire Line for Wtr Tank	Total 11	Reliability	Steam Production	0.01808	0.20	
P0000720 Forrest Ave Realignment OH	Total 126	Reliability	Distribution	0.04286	5.40	
P0000726 West Loch Sub	Total (1)	Reliability	Distribution	0.04286	(0.04)	
P0000733 Trms Sub RTU Migration Pgm	Total 471	Reliability	Transmission	0.02935	13.82	
P0000737 Chlorine Dioxide Systm	Total 1	Reliability	Steam Production	0.01808	0.02	
P0000738 Waiau Pipeline SEC Lease	Total 2,632	Reliability	Land	0.00000	0.00	
P0000741 W5 Demin raw wtr piping	Total 257	Reliability	Steam Production	0.01808	4.65	
P0000746 Barbers Point TF 46kV TL	Total 453	Reliability	Transmission	0.02935	13.30	
P0000747 Valve Station Service	Total 53	Reliability	Distribution	0.04286	2.27	
P0000748 Barbers Point TF 46kV Substation	Total 1,017	Reliability	Distribution	0.04286	43.59	
P0000750 K5 Reheater Element Replacements	Total 1,584	Reliability	Steam Production	0.01808	28.64	
P0000765 McCully tsf #1 Removal	Total 14	Reliability	Distribution	0.04286	0.60	
P0000766 McCully tsf #1 recirculating	Total 22	Reliability	Distribution	0.04286	0.94	
P0000767 Ft Wvr SS Tsf #2 Install	Total 150	Reliability	Distribution	0.04286	6.43	

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PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	FUNC CAT	DEPR RATE	2005 DEPR	CLASSIFICATION DEPR RATE
P0000769 2003 Spare 138-46kv Tsf	Total 957	Reliability	Transmission	0.02935	28.09	
P0000771 H81 TVL Screen Repl	Total -	Reliability	Steam Production	0.01808	0.00	
P0000772 H92 TVL Screen Repl	Total 158	Reliability	Steam Production	0.01808	2.86	
P0000774 Kukui Gardens Conversion	Total 291	Reliability	Distribution	0.04286	12.47	
P0000775 HECO UF Load Shed Upd Trans	Total 109	Reliability	Transmission	0.02935	3.20	
P0000776 HECO UF Load Shed Upd Distr	Total 215	Reliability	Distribution	0.04286	9.21	
P0000777 Waiau Tank 5 Roof Replace	Total 1,061	Reliability	Steam Production	0.01808	19.18	
P0000778 Waialua #2 12.5MVA Tsf Repl	Total (1)	Reliability	Distribution	0.04286	(0.04)	
P0000784 K22 TVL Screen Repl	Total 120	Reliability	Steam Production	0.01808	2.17	
P0000785 K41 TVL Screen Repl	Total 104	Reliability	Steam Production	0.01808	1.88	
P0000803 W3 Operator Console Upgrade	Total 345	Reliability	Steam Production	0.01808	6.24	
P0000822 K4 Recorder Replacement	Total 74	Reliability	Steam Production	0.01808	1.34	
P0000832 W3 Main Xfrm Replacement	Total 889	Reliability	Steam Production	0.01808	16.07	
P0000840 Security/Campbell Station	Total 129	Reliability	Transmission	0.02935	3.79	
P0000841 Security/School Street Sub	Total 118	Reliability	Transmission	0.02935	3.46	
P0000855 K6 Aux Transformer	Total 255	Reliability	Steam Production	0.01808	4.61	
P0000863 K4 Generator Rotor Rewind	Total 807	Reliability	Steam Production	0.01808	14.59	
P0000879 Kahe-Halawa #1 138kV SW Repl	Total 342	Reliability	Transmission	0.02935	10.04	
P0000880 Kahe-Halawa #2 138kV SW Repl	Total 330	Reliability	Transmission	0.02935	9.69	
P0000882 Waiau WW Reline Cells 1 & 2	Total 4	Reliability	Steam Production	0.01808	0.07	
P0000883 Purch spare 8%, 46-12kV tsf	Total 322	Reliability	Distribution	0.04286	13.80	
P0000884 Purch spare 10%, 46-12kV tsf	Total 335	Reliability	Distribution	0.04286	14.36	
P0000885 Midweek Auto-Transfer Swgr	Total 353	Reliability	Distribution	0.04286	15.13	
P0000888 Koolau-Pukele #1 Str. 18	Total 439	Reliability	Transmission	0.02935	12.88	
P0000889 Airport 12KV Cktb Install	Total 528	Reliability	Distribution	0.04286	22.63	
P0000891 Kamokila SS Tsf #2 Install	Total 436	Reliability	Distribution	0.04286	18.69	
P0000892 Kamokila Tsf#2 circuiting	Total 83	Reliability	Distribution	0.04286	3.56	
P0000893 H8 Generator Rotor Rewind	Total (3)	Reliability	Steam Production	0.01808	(0.05)	
P0000894 Spare 15kV Switchgear	Total 177	Reliability	Distribution	0.04286	7.59	
P0000898 Kahe 42 Tvl Screen	Total 130	Reliability	Steam Production	0.01808	2.35	
P0000902 Fort Street #1 Tsf Replace	Total 394	Reliability	Distribution	0.04286	16.89	
P0000903 Ena #2 Tsf Replace	Total 400	Reliability	Distribution	0.04286	17.14	
P0000904 Purch 10% 46-12kV spare tsf	Total 355	Reliability	Distribution	0.04286	15.22	
P0000905 Kaonohi #2 Tsf Replace	Total 360	Reliability	Distribution	0.04286	15.43	
P0000909 Kahe 13-14 FT Berm Upgrade	Total 206	Reliability	Steam Production	0.01808	3.72	
P0000910 Kahe 11-12 FT Berm Upgrade	Total 176	Reliability	Steam Production	0.01808	3.18	
P0000912 Kahe 12 Travelling Screen	Total 137	Reliability	Steam Production	0.01808	2.48	
P0000913 Kona Makaloa 25kV UG	Total 188	Reliability	Distribution	0.04286	8.06	
P0000918 Kewalo #2 Tsf Replace	Total 382	Reliability	Distribution	0.04286	16.37	
P0000919 Pohakupu #2 Tsf Replace	Total 359	Reliability	Distribution	0.04286	15.39	
P0000920 Waiawa #2 Tsf Replace	Total 374	Reliability	Distribution	0.04286	16.03	
P0000921 Helemano #1 Tsf Replace	Total 339	Reliability	Distribution	0.04286	14.53	
P0000925 Purch 10% 46-12kV spare tsf	Total 313	Reliability	Distribution	0.04286	13.42	
P0000927 Mililani Mauka Unit 134A	Total 122	Reliability	Distribution	0.04286	5.23	
P0000929 Loop Feed Protection Tsf	Total 5	Reliability	Distribution	0.04286	0.21	
P0000930 PMH-9 Control Upgrades	Total 269	Reliability	Distribution	0.04286	11.53	
P0000933 K2 to CW Basin Pipe Trench	Total 18	Reliability	Steam Production	0.01808	0.33	
P0000941 Tree Wire - Lai Road	Total 173	Reliability	Distribution	0.04286	7.41	
P0000942 Waiau Tank 4 Bottom Replmt	Total 1,040	Reliability	Steam Production	0.01808	18.80	
P0000944 Ala Wai Canal 46kV Dredging	Total 302	Reliability	Transmission	0.02935	8.86	
P0000955 W8 BFP Rotating Elem/Volute	Total 329	Reliability	Steam Production	0.01808	5.95	
P0000963 K51 TVL SCREEN REPL	Total 162	Reliability	Steam Production	0.01808	2.93	
P0000965 K11 TVL SCREEN REPL	Total 129	Reliability	Steam Production	0.01808	2.33	
P0000970 W5 Mixed Bed Polisher	Total 202	Reliability	Steam Production	0.01808	3.65	
P0001002 K31 TVL SCREEN REPL	Total 150	Reliability	Steam Production	0.01808	2.71	
P0001012 Sheridan St Raising OH Lines	Total 96	Reliability	Distribution	0.04286	4.11	
P0001018 K5 Turbine Blades	Total 425	Reliability	Steam Production	0.01808	7.68	
P0001036 W3 HP Turbine Curtis Blade	Total 158	Reliability	Steam Production	0.01808	2.86	
P0001039 Purch Spare 8%, 10MVA Tsf	Total 316	Reliability	Distribution	0.04286	13.54	
P0001048 Kunia TSF Replacement	Total 246	Reliability	Distribution	0.04286	10.54	
P1260000 C&M Recon UG Dist Cable	Total 1,526	Reliability	Distribution	0.04286	65.40	
P1370000 Distr R/W Purch (Blanket)	Total 34	Reliability	Land	0.00000	0.00	
1373000 46kv R/W Purch (blanket)	Total 16	Reliability	Land	0.00000	0.00	
1429000 Misc Power Plant Addns	Total 3,501	Reliability	Steam Production	0.01808	63.30	
P1470000 Minor Trans Sub Addns	Total 2,111	Reliability	Transmission	0.02935	61.96	
P1480000 Minor Dist Sub Addns	Total 3,909	Reliability	Distribution	0.04286	167.54	
P1789000 Preventive OH Transf Repl	Total 103	Reliability	Distribution	0.04286	4.41	
P1793000 Preventive UG Transf Repl	Total 156	Reliability	Distribution	0.04286	6.69	
P1810000 Prev Misc Cable Failure Rpl	Total 1,603	Reliability	Distribution	0.04286	68.70	
P1870000 Power Station Misc	Total 831	Reliability	Steam Production	0.01808	15.02	

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Depreciation for 2004 Additions

PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2005 Depr	Classification Depr Rate
P1990000 Minor T&D System Programs	Total 1,115	Reliability	Distribution	0.04286	47.79	
P3400000 Prev OH Dist Repl	Total 935	Reliability	Distribution	0.04286	40.07	
P3401000 Prev OH Subtrans Repl	Total 1,375	Reliability	Transmission	0.02935	40.36	
P402000 Prev OH Trans Repl	Total 392	Reliability	Transmission	0.02935	11.51	
P683000 AES 138KV SUB-TERM BP #1,2,3	Total (42)	Reliability	Transmission	0.02935	(1.23)	
P4762000 Kamoku Sub Kewalo Term	Total 27	Reliability	Transmission	0.02935	0.79	
P4764000 Kamoku EMS	Total 1	Reliability	Transmission	0.02935	0.03	
P6740000 Iwilei Ntwk Bkr Failure	Total 15	Reliability	Distribution	0.04286	0.64	
P6862000 Kahe Bus B Bkup Prot	Total 5	Reliability	Transmission	0.02935	0.15	
P72270000 North Shore Automation Comm	Total 626	Reliability	General	0.08394	52.55	
P7430000 Kahe 1-4 Cntrl Hse Expsn	Total -	Reliability	Transmission	0.02935	0.00	
P9027000 H9 Primary Fuel Oil Pumps	Total -	Reliability	Steam Production	0.01808	0.00	
P9401000 Kahe Fire Pump Inst	Total 809	Reliability	Steam Production	0.01808	14.63	
P9453000 H9 Coriolis FO Flowmeter	Total -	Reliability	Steam Production	0.01808	0.00	
P9492000 K6 A/H Acoustic Sootblower	Total 71	Reliability	Steam Production	0.01808	1.28	
P9548000 Kahe-Kahe SCADA Comm	Total -	Reliability	General	0.08394	0.00	
P9599000 Miki 2-Miki 3 SCADA Comm	Total 1	Reliability	General	0.08394	0.08	
P9903000 Puuloa Road Widening	Total 1,372	Reliability	Transmission	0.02935	40.27	
	108,378	Reliability Total			2,820.32	0.02602
P0000613 Fuel Cell Test Facility	Total 3	Renew Nonrecoverable	General	0.08394	0.25	
	3	Renew Nonrecoverable Total			0.25	0.08394
	146,575	Grand Total			4,830.57	

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Depreciation for 2005 Additions

PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2006 Depr	Classification Dept Rate
P0000474 WSC Privatization	Total 27,223	Customer Add	Distribution	0.04304	1,172	
P0001057 Energy Projects Relocation	Total (17,627)	Customer Add	General	0.08035	(1,416)	
P1510000 Misc OH Svc & Extn (CID)	Total 1,261,057	Customer Add	Distribution	0.04304	54,276	
P1580000 Minor OH Dist Addn (CID)	Total 1,610,609	Customer Add	Distribution	0.04304	69,321	
P1670000 P&I&Test Meters & Mtr Eq	Total 1,056,195	Customer Add	Distribution	0.04304	45,459	
P1680000 Tsf & Equip Pur CID	Total 5,296,461	Customer Add	Distribution	0.04304	227,960	
P1690000 Minor T&D Customer Programs	Total 279,199	Customer Add	Transmission	0.02970	8,292	
P1700000 Misc UG Svc & Extn (CID)	Total 15,714,519	Customer Add	Distribution	0.04304	676,353	
P1800000 Minor OH To UG Conv (CID)	Total (138)	Customer Add	Distribution	0.04304	(6)	
P1820000 Minor UG Addns (CID)	Total 1,168,413	Customer Add	Distribution	0.04304	50,289	
	26,395,910	Customer Add Total			1,131,698	0.04287
P0000452 Waiau Electric Parts Store	Total 47,223	Other	Steam Production	0.01813	856	
P0000499 Ward A/C Imprv Phase II	Total 4,381,591	Other	General	0.08035	352,061	
P0000500 Misc Office Furniture	Total 396,980	Other	General	0.08035	31,897	
P0000501 Misc Office Equipment	Total 44,425	Other	General	0.08035	3,570	
P0000503 Ward Ave Minor Addns	Total 174,183	Other	General	0.08035	13,996	
P0000504 King St Minor Addns	Total 41,877	Other	General	0.08035	3,365	
P0000652 Misc Mainframe Hardware	Total 181,305	Other	General	0.08035	14,568	
P0000653 Collaborative Communications	Total 44,954	Other	General	0.08035	3,612	
P0000666 Waiau Maint Shop Office	Total (36,062)	Other	Steam Production	0.01813	(654)	
P0000710 King and Ward PBXs	Total 87,880	Other	General	0.08035	7,061	
P0000711 Remote PBXs	Total 345,292	Other	General	0.08035	27,744	
P0000851 Purchasing Warehouse Renov	Total 28,009	Other	General	0.08035	2,250	
P0000868 Middleware Implementation	Total 27,202	Other	General	0.08035	2,186	
P0000969 Waiau Maint Shop Mods	Total 150,833	Other	Steam Production	0.01813	2,735	
P0001007 Security Lighting & Fencing	Total 56,963	Other	General	0.08035	4,577	
P0001014 Security CCTV System	Total 182,371	Other	General	0.08035	14,654	
P0001017 King-Elevator	Total 523,137	Other	General	0.08035	42,034	
P0001023 ACCESS SYSTEM	Total 51,756	Other	General	0.08035	4,159	
P0001035 King/CPP PBX Replacement	Total 512,235	Other	General	0.08035	41,158	
P0001058 Ward Ave Electronic Key Box	Total 931	Other	General	0.08035	75	
P0001071 Data Center Cabinets	Total 14,152	Other	General	0.08035	1,137	
P0001087 Replace CEIP Multimode Fiber	Total 445,611	Other	General	0.08035	35,805	
P0001126 ITS Relocation to Pauahi	Total 43,936	Other	General	0.08035	3,530	
P1081000 Capitalized Tools & Equip	Total 1,019,582	Other	General	0.08035	81,923	
P1243000 Purchase PC's-ITS	Total 899,771	Other	General	0.08035	72,297	
P1244000 Printers/Copiers/Faxes	Total 176,864	Other	General	0.08035	14,211	
P1250000 2005 Vehicle Budget	Total 1,824,262	Other	General	0.08035	146,579	
P1251000 Misc Tel Eqpt (NT)	Total 30,597	Other	General	0.08035	2,459	
P1500000 Misc CM Fac-Op & Ctrl (TD)	Total 959,130	Other	General	0.08035	77,066	
P1505000 Other Misc Comm Fac (SOD)	Total 15,713	Other	General	0.08035	1,263	
P4150000 Monitoring Services	Total 67,245	Other	Distribution	0.04304	2,894	
	12,739,950	Other Total			1,011,067	0.07936
P0000064 Waiau Fuel Pipeline Project	Total 1,880,077	Reliability	Steam Production	0.01813	34,086	
P0000078 K5 Boiler Controls Upgrade	Total (19,118)	Reliability	Steam Production	0.01813	(347)	
P0000079 K6 Boiler Controls Upgrade	Total 72,455	Reliability	Steam Production	0.01813	1,314	
P0000084 K5 Blr Wtr Chem Alyz Repl	Total 35,281	Reliability	Steam Production	0.01813	640	
P0000089 Pwr Quality Monitor Install	Total 64,871	Reliability	Distribution	0.04304	2,792	
P0000097 Waiau 8 Sootblower Ctls Upg	Total 9,520	Reliability	Steam Production	0.01813	173	
P0000120 Corr (Inc Emg) OH Trsf Rpl	Total 333,396	Reliability	Distribution	0.04304	14,349	
P0000121 Corr (Inc Emg) UG Trsf Rpl	Total 713,135	Reliability	Distribution	0.04304	30,693	
P0000122 Cor (Inc Emg) Mis Cable Rpl	Total 9,820,761	Reliability	Distribution	0.04304	422,686	
P0000123 Corr (Inc Emg) OH Dist Rpl	Total 1,608,117	Reliability	Distribution	0.04304	69,213	
P0000124 Cor (Inc Emg) OH Subtrn Rpl	Total 497,785	Reliability	Transmission	0.02970	14,784	
P0000143 Salt Lake Blvd Widening Ph2	Total 1,915,516	Reliability	Distribution	0.04304	82,444	
P0000172 Iwilei Fuel Oil Pump Rpl	Total 307,461	Reliability	Steam Production	0.01813	5,574	
P0000208 W3 Cycle Chem Instr.	Total 6,856	Reliability	Steam Production	0.01813	124	
P0000211 W6 Cycle Chem Instr.	Total 670,567	Reliability	Steam Production	0.01813	12,157	
P0000213 W8 Cycle Chem Instr.	Total 3,666	Reliability	Steam Production	0.01813	66	
P0000231 W8 BFP Rec Ctrl Valves Upg	Total 35,226	Reliability	Steam Production	0.01813	639	
P0000233 W7&8 Servicio Air Compressor	Total 406,072	Reliability	Steam Production	0.01813	7,362	
P0000238 K6 BFP Rec Ctrl Valves Upg	Total 100,459	Reliability	Steam Production	0.01813	1,821	
P0000254 W3 Stack & Breeching Rpl	Total 7,561	Reliability	Steam Production	0.01813	137	
P0000260 W3 Data Acq & Monitoring	Total 3,620	Reliability	Steam Production	0.01813	66	
P0000274 W3&4 Boiler Bldg ReRoof	Total 34,366	Reliability	Steam Production	0.01813	623	
P0000277 New Kuahua Substation	Total 6,195,095	Reliability	Distribution	0.04304	266,637	
P0000279 Puuloa Substation Prot	Total 161,012	Reliability	Distribution	0.04304	6,930	
P0000280 Makalapa-Kuahua FO Line	Total 692,249	Reliability	General	0.08035	55,622	
P0000281 Makalapa-Puuloa FO Line	Total 688,781	Reliability	General	0.08035	55,344	
P0000282 Kuahua 46kv Ln Reconnect	Total 424,842	Reliability	Distribution	0.04304	18,285	

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Depreciation for 2005 Additions

PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2006 Depr	Classification Dept Rate
P0000294 Pukete Tie Breaker Repl	Total 2,799	Reliability	Transmission	0.02970	83	
P0000297 W3 Condenser Refurbishment	Total 427,317	Reliability	Steam Production	0.01813	7,747	
P0000302 Waiau FWH #72 Replacement	Total 339,609	Reliability	Steam Production	0.01813	6,157	
P0000303 Waiau FWH #82 Replacement	Total 9,851	Reliability	Steam Production	0.01813	179	
P0000313 W8 APH Scootblower Upgrade	Total 460	Reliability	Steam Production	0.01813	8	
P0000330 Waiau 3 Ignitor Replacement	Total 9,637	Reliability	Steam Production	0.01813	175	
P0000336 K5 Burner Front Roof	Total 71,072	Reliability	Steam Production	0.01813	1,289	
P0000338 K6 Burner Front Roof	Total 72,581	Reliability	Steam Production	0.01813	1,316	
P0000423 Kailua Rd UG Conversion	Total 983,865	Reliability	Distribution	0.04304	42,346	
P0000445 Trayer Sub Sw Repl Prog	Total 31,389	Reliability	Distribution	0.04304	1,351	
P0000449 Kahe Electronic Parts Store	Total 64,572	Reliability	Steam Production	0.01813	1,171	
P0000454 K6 Fan Enclosure	Total 771,591	Reliability	Steam Production	0.01813	13,989	
P0000459 Waiau 3 ERV Replacement	Total 104,458	Reliability	Steam Production	0.01813	1,894	
P0000466 K3&4 Service Air Compressor	Total 55,770	Reliability	Steam Production	0.01813	1,011	
P0000485 WPP FWH #35 Replacement	Total 7,668	Reliability	Steam Production	0.01813	139	
P0000491 K-H#2/Wai-Wah Str 86/25	Total 1,042,836	Reliability	Transmission	0.02970	30,972	
P0000493 W6 HP Turbine Blades	Total 1,838,339	Reliability	Steam Production	0.01813	33,329	
P0000505 Other Minor Gen Pit Addns	Total 17,894	Reliability	General	0.08035	1,438	
P0000507 Kam Hy Resurf Waiahole-Cr Ln	Total 12,910	Reliability	Transmission	0.02970	383	
P0000511 BFP Automated Test	Total 1,248	Reliability	Steam Production	0.01813	23	
P0000562 Mokuone 46-12KV Line Ext	Total 4,820,024	Reliability	Distribution	0.04304	207,454	
P0000563 Mokuone 46-12KV Substation 1	Total 70,641	Reliability	Distribution	0.04304	3,040	
P0000575 Nimitz Highway Rehabilitation	Total 501	Reliability	Distribution	0.04304	22	
P0000590 PP Security Hardware Upgrade	Total 21,889	Reliability	Steam Production	0.01813	397	
P0000598 Kahekili Hy Ltg Imprv	Total 108,279	Reliability	Distribution	0.04304	4,660	
P0000601 Gen Prot Relay Replacement	Total 12,429	Reliability	Steam Production	0.01813	225	
P0000605 W3 and W4 Stack Drain	Total 9,870	Reliability	Steam Production	0.01813	179	
P0000608 Sand Isle WWTP Disinfection	Total 44,136	Reliability	Steam Production	0.01813	800	
P0000609 K2 Bir Access Door Addition	Total 145,106	Reliability	Steam Production	0.01813	2,631	
P0000624 Kahs Tank Farm Fire Main	Total 44,948	Reliability	Steam Production	0.01813	815	
P0000625 HPP Swyd Cable Tray Sprinkler	Total 124,468	Reliability	Steam Production	0.01813	2,257	
P0000633 K4 Exciter/Regulator Upgrade	Total 1,597	Reliability	Steam Production	0.01813	29	
P0000638 W3 Air Heater Tube Replmnt	Total 25,505	Reliability	Steam Production	0.01813	462	
P0000646 Kahs 24FWH Replacement	Total 575,772	Reliability	Steam Production	0.01813	10,439	
P0000647 Kahs 23FWH Replacement	Total 404,723	Reliability	Steam Production	0.01813	7,338	
P0000651 K5 AEH Limit Switch Upgrd	Total 22,100	Reliability	Steam Production	0.01813	401	
P0000658 W9 Exhaust Duct Replacement	Total 1,676,529	Reliability	Non-Steam Prod	0.01087	18,224	
P0000659 Kahs 25FWH Replacement	Total 520,862	Reliability	Steam Production	0.01813	9,443	
P0000664 W3 UPS Installation	Total 523	Reliability	Steam Production	0.01813	9	
P0000667 Kahs Sewer System Upgrade	Total 727,127	Reliability	Steam Production	0.01813	13,183	
P0000669 Kakaako ID10	Total 73,110	Reliability	Distribution	0.04304	3,147	
P0000675 W6 Control/DC Cables to Swyd	Total 110,959	Reliability	Steam Production	0.01813	2,012	
P0000676 K2 Opacity Monitor Upgrade	Total 220,332	Reliability	Steam Production	0.01813	3,995	
P0000682 W6 Annunciator Upgrade	Total 411,574	Reliability	Steam Production	0.01813	7,462	
P0000685 Waiau Start-Up Cable Replace	Total 1,853	Reliability	Steam Production	0.01813	34	
P0000690 W5 Annunciator Upgrade	Total 48,049	Reliability	Steam Production	0.01813	871	
P0000699 Fire sprinkler-tsfl oil stora	Total 40,157	Reliability	General	0.08035	3,227	
P0000715 Dispatch Boards	Total 1,190,385	Reliability	General	0.08035	95,647	
P0000733 Trns Sub RTU Migration Pgm	Total 1,701,813	Reliability	Transmission	0.02970	50,544	
P0000741 WS Demin raw wtr piping	Total 47,396	Reliability	Steam Production	0.01813	859	
P0000747 Valve Station Service	Total 703	Reliability	Distribution	0.04304	30	
P0000748 Barbers Point TF 46kV Substation	Total 39,155	Reliability	Distribution	0.04304	1,685	
P0000750 K5 Reheater Element Replacements	Total 20,661	Reliability	Steam Production	0.01813	375	
P0000764 H-1 Widening Waimalu Reloc	Total 125,166	Reliability	Distribution	0.04304	5,387	
P0000772 H92 TVL Screen Repl	Total 106	Reliability	Steam Production	0.01813	2	
P0000774 Kukui Gardens Conversion	Total 478,226	Reliability	Distribution	0.04304	20,583	
P0000784 K22 TVL Screen Repl	Total 26,818	Reliability	Steam Production	0.01813	486	
P0000785 K41 TVL Screen Repl	Total 4,723	Reliability	Steam Production	0.01813	86	
P0000803 W3 Operator Console Upgrade	Total 7,407	Reliability	Steam Production	0.01813	134	
P0000804 W6 Operator Console Upgrade	Total 363,077	Reliability	Steam Production	0.01813	6,583	
P0000806 K06 CWP MOV Replacement	Total 362,493	Reliability	Steam Production	0.01813	6,572	
P0000821 K2 Battery Bank Replacement	Total 165,119	Reliability	Steam Production	0.01813	2,994	
P0000832 W3 Main Xfmr Replacement	Total 5,632	Reliability	Steam Production	0.01813	102	
P0000837 Makalapa 46kV Brkr Addition	Total 540,338	Reliability	Transmission	0.02970	16,048	
P0000838 46kV Fdrs to FI Sub	Total 62,751	Reliability	Transmission	0.02970	1,864	
P0000840 Security/Campbell Station	Total 12,556	Reliability	Transmission	0.02970	373	
P0000841 Security/School Street Sub	Total 12,883	Reliability	Transmission	0.02970	383	
P0000842 Security/Wahiawa Sub	Total 173,101	Reliability	Transmission	0.02970	5,141	
P0000843 Security/Iwilei Sub	Total 201,889	Reliability	Transmission	0.02970	5,996	
P0000855 K6 Aux Transformer	Total 12,800	Reliability	Steam Production	0.01813	232	

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Depreciation for 2005 Additions

PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2006 Depr	Classification Depr Rate
P0000860 K2 Annunciator Replacement	Total 717,751	Reliability	Steam Production	0.01813	13,013	
P0000886 Wal-Mart Sam's Keeauumoku	Total 550,819	Reliability	Distribution	0.04304	23,707	
P0000889 Airport 12KV Ckts Install	Total 2,825	Reliability	Distribution	0.04304	122	
P0000893 H8 Generator Rotor Rewind	Total 190	Reliability	Steam Production	0.01813	3	
P0000903 Ena #2 Tsf Replace	Total 323	Reliability	Distribution	0.04304	14	
P0000910 Kahe 11-12 FT Berm Upgrade	Total 35,893	Reliability	Steam Production	0.01813	651	
P0000911 Palehua East A 46kV Reloc	Total 327,300	Reliability	Transmission	0.02970	9,721	
P0000917 Village Park - DB Cable Rpl	Total 1,710,030	Reliability	Distribution	0.04304	73,600	
P0000919 Pohakupu #2 Tsf Replace	Total 120	Reliability	Distribution	0.04304	5	
P0000920 Walawa #2 Tsf Replace	Total 120	Reliability	Distribution	0.04304	5	
P0000921 Helemano #1 Tsf Replace	Total 160	Reliability	Distribution	0.04304	7	
P0000923 Kahala #2 4KV Tsf Replace	Total 332,109	Reliability	Distribution	0.04304	14,294	
P0000926 Mililani Mauka North Gulley	Total 397,731	Reliability	Transmission	0.02970	11,813	
P0000927 Mililani Mauka Unit 134A	Total 182	Reliability	Distribution	0.04304	8	
P0000929 Loop Feed Protection Tsf	Total 55,755	Reliability	Distribution	0.04304	2,400	
P0000933 K2 to CW Basin Pipe Trench	Total 13,270	Reliability	Steam Production	0.01813	241	
P0000940 Pearl Highlands 2nd Fdr	Total 302,778	Reliability	Distribution	0.04304	13,032	
P0000941 Tree Wire - Lai Road	Total 17,498	Reliability	Distribution	0.04304	753	
P0000942 Walau Tank 4 Bottom Replmt	Total 123,670	Reliability	Steam Production	0.01813	2,242	
P0000944 Ala Wai Canal 46kV Dredging	Total 196	Reliability	Transmission	0.02970	6	
P0000958 K6 SSH Element Replacement	Total 1,601,857	Reliability	Steam Production	0.01813	29,042	
P0000961 W82 TVL SCREEN REPL	Total 143,644	Reliability	Steam Production	0.01813	2,604	
P0000963 K51 TVL SCREEN REPL	Total 46	Reliability	Steam Production	0.01813	1	
P0000964 K62 TVL SCREEN REPL	Total 170,302	Reliability	Steam Production	0.01813	3,088	
P0000965 K11 TVL SCREEN REPL	Total 1,047	Reliability	Steam Production	0.01813	19	
P0000970 W5 Mixed Bed Polisher	Total 11,896	Reliability	Steam Production	0.01813	216	
P0001008 W72 TVL SCREEN REPL	Total 145,063	Reliability	Steam Production	0.01813	2,630	
P0001011 W81 TVL SCREEN REPL	Total 143,214	Reliability	Steam Production	0.01813	2,596	
P0001019 Structure 22 Wailupe #2 Repl	Total 280,859	Reliability	Transmission	0.02970	8,342	
P0001024 Kahe 52 Traveling Screen	Total 153,138	Reliability	Steam Production	0.01813	2,776	
P0001030 H8&9 Roof Drain Piping	Total 206,894	Reliability	Steam Production	0.01813	3,751	
P0001031 K6 Flame Scanner Det Replace	Total 145,771	Reliability	Steam Production	0.01813	2,643	
P0001032 Honolululi Reserv 46kV Reloc	Total 201,174	Reliability	Transmission	0.02970	5,975	
P0001036 W3 HP Turbine Curtis Blade	Total 46	Reliability	Steam Production	0.01813	1	
P0001038 Kahe-CEIP OPGW Replace	Total 430,050	Reliability	Transmission	0.02970	12,772	
P0001039 Purch Spare 8%, 10MVA Tsf	Total (2,646)	Reliability	Distribution	0.04304	(114)	
P0001041 BWS Desal SS CID	Total 165	Reliability	Distribution	0.04304	7	
P0001043 Oceanit/BWS Desal Substation	Total 48	Reliability	Distribution	0.04304	2	
P0001048 Kunia TSF Replacement	Total 174,055	Reliability	Distribution	0.04304	7,491	
P0001060 Luualualei Homestead Rd Impr.	Total 93,681	Reliability	Distribution	0.04304	4,032	
P0001063 Palehua East B Temp OH Reloc	Total 46,514	Reliability	Transmission	0.02970	1,381	
P0001064 W3 HSFD Fan Motor Replace	Total 142,394	Reliability	Steam Production	0.01813	2,582	
P0001068 Replace EW 8%, 10 MVA Tsf	Total 536,740	Reliability	Distribution	0.04304	23,101	
P0001083 W3 Aux Transformer Replace	Total 165,110	Reliability	Steam Production	0.01813	2,993	
P0001144 Helemano - Substation DG	Total 998,648	Reliability	Non-Steam Prod	0.01087	10,855	
P0001145 Ewa Nui - Substation DG	Total 876,676	Reliability	Non-Steam Prod	0.01087	9,529	
P0001146 Iwilei Tank Farm DG	Total 1,159,134	Reliability	Non-Steam Prod	0.01087	12,600	
P1370000 Distr R/W Purch (Blanket)	Total 53,931	Reliability	Land	0.00000	0	
P1373000 46kv R/W Purch (blanket)	Total 55	Reliability	Land	0.00000	0	
P1429000 Misc Power Plant Addns	Total 1,581,504	Reliability	Steam Production	0.01813	28,673	
P1470000 Minor Trans Sub Addns	Total 497,254	Reliability	Transmission	0.02970	14,768	
P1480000 Minor Dist Sub Addns	Total 954,050	Reliability	Distribution	0.04304	41,062	
P1789000 Preventive OH Transf Repl	Total 105,947	Reliability	Distribution	0.04304	4,560	
P1793000 Preventive UG Transf Repl	Total 235,608	Reliability	Distribution	0.04304	10,141	
P1810000 Prev Misc Cable Failure Rpl	Total 2,517,935	Reliability	Distribution	0.04304	108,372	
P1870000 Power Station Misc	Total 83,914	Reliability	Steam Production	0.01813	1,521	
P1990000 Minor T&D System Programs	Total 780,904	Reliability	Distribution	0.04304	33,610	
P1991000 Minor Dist Design UG Addns	Total 198,149	Reliability	Distribution	0.04304	8,528	
P3400000 Prev OH Dist Repl	Total 933,687	Reliability	Distribution	0.04304	40,186	
P3401000 Prev OH Subtrans Repl	Total 1,002,929	Reliability	Transmission	0.02970	29,787	
P3402000 Prev OH Trans Repl	Total 602,038	Reliability	Transmission	0.02970	17,881	
6740000 Iwilei Ntwk Bkr Failure	Total 5,555	Reliability	Distribution	0.04304	239	
P9294000 MOANALUA RD IMPRV AIEA, PH 3	Total 28,458	Reliability	Distribution	0.04304	1,225	
P9401000 Kahe Fire Pump Inst	Total 43,114	Reliability	Steam Production	0.01813	782	
P9492000 K6 A/H Acoustic Sootblower	Total 1,010	Reliability	Steam Production	0.01813	18	
	70,394,037	Reliability Total			2,431,977	
	109,529,898	Grand Total			4,574,741	0.03455

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Depreciation for 2006 Additions

PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2007 Depr	Classification Depr Rate
P0000474 WSC Privatization	Total 446,154	Customer Adds	Distribution	0.04297	19,171	
P0001319 Mamala Phase 2-Hickam	Total 214,956	Customer Adds	Distribution	0.04297	9,237	
P1510000 Misc OH Svc & Extn (CID)	Total 1,170,408	Customer Adds	Distribution	0.04297	50,292	
P1580000 Minor OH Dist Addn (CID)	Total 1,254,214	Customer Adds	Distribution	0.04297	53,894	
P1670000 P&I/Test Meters & Mtr Eq	Total 1,674,784	Customer Adds	Distribution	0.04297	71,965	
P1680000 Tsf & Equip Pur CID	Total 3,962,233	Customer Adds	Distribution	0.04297	170,257	
P1690000 Minor T&D Customer Programs	Total 245,665	Customer Adds	Transmission	0.02948	7,242	
P1700000 Misc UG Svc & Extn (CID)	Total 9,826,128	Customer Adds	Distribution	0.04297	422,229	
P1820000 Minor UG Addns (CID)	Total 1,374,719	Customer Adds	Distribution	0.04297	59,072	
	20,169,261	Customer Adds Total			863,359	0.04281
P0000280 Makalapa-Kuahua FO Line	Total 35,937	Other	General	0.07618	2,738	
P0000281 Makalapa-Puuloa FO Line	Total 20,642	Other	General	0.07618	1,572	
P0000449 KO Kahe Electr Parts Store	Total (8,124)	Other	Steam Production	0.01813	(147)	
P0000452 W0 Waiau Electr Parts Store	Total 8,124	Other	Steam Production	0.01813	147	
P0000499 Ward A/C Imprv Phase II	Total 377,765	Other	General	0.07618	28,778	
P0000500 Misc Office Furniture	Total 143,682	Other	General	0.07618	10,946	
P0000501 Misc Office Equipment	Total 19,834	Other	General	0.07618	1,511	
P0000503 Ward Ave Minor Addns	Total 244,650	Other	General	0.07618	18,637	
P0000504 King St Minor Addns	Total 131,076	Other	General	0.07618	9,985	
P0000506 Ward A/C Equip Repl	Total (52,524)	Other	General	0.07618	(4,001)	
P0000571 CIS Replacement	Total 250,083	Other	General	0.07618	19,051	
P0000652 Misc Enterprise Hardware	Total 41,802	Other	General	0.07618	3,184	
P0000653 Collaborative Communications	Total 1,570	Other	General	0.07618	120	
P0000711 Remote PBXs	Total 22,991	Other	General	0.07618	1,751	
P0000716 Telecomm Extensions	Total 2,973,201	Other	General	0.07618	226,498	
P0000794 Call Center-1st floor	Total 1,171,446	Other	General	0.07618	89,241	
P0000825 C&M Renovation	Total 727,797	Other	General	0.07618	55,444	
P0000839 Comm. Links FI-Makipa	Total 400,988	Other	General	0.07618	30,547	
P0000866 King Downspout Replicmt	Total 9,113	Other	General	0.07618	694	
P0001006 Sign for Ward Ave	Total 72,083	Other	General	0.07618	5,491	
P0001014 Security CCTV System	Total 18,202	Other	General	0.07618	1,387	
P0001017 King-Elevator	Total (465,877)	Other	General	0.07618	(35,491)	
P0001035 King/CPP PBX Replacement	Total 2,544	Other	General	0.07618	194	
P0001055 Customer Solutions Consolldn	Total 240,263	Other	General	0.07618	18,303	
P0001056 DSM Expansion	Total 144,389	Other	General	0.07618	11,000	
P0001087 Replace CEIP Multimode Fiber	Total 80,760	Other	General	0.07618	6,152	
P0001126 ITS Relocation to Pauahi	Total 633,769	Other	General	0.07618	48,281	
P0001143 Ward AC Space Planning	Total 212,024	Other	General	0.07618	16,152	
P0001165 Enterprise Reporting (BI)	Total 9,706	Other	General	0.07618	739	
P0001166 Shared UNIX Infrastructure	Total 1,646,201	Other	General	0.07618	125,408	
P1081000 Capitalized Tools & Equip	Total 894,456	Other	General	0.07618	68,140	
P1243000 PCs, Servers & Network	Total 511,434	Other	General	0.07618	38,961	
P1244000 Printers/Copiers/Faxes	Total 82,713	Other	General	0.07618	6,301	
P1250000 Capital Vehicle Budget	Total 510,702	Other	General	0.07618	38,905	
P1251000 Misc Tel Eqpt (NT)	Total 5,535	Other	General	0.07618	422	
P1500000 Misc CM Fac-Op & Ctrl (TD)	Total 211,168	Other	General	0.07618	16,087	
P1505000 Other Misc Comm Fac (SOD)	Total 380,329	Other	General	0.07618	28,973	
P4150000 Monitoring Services	Total 8,738	Other	Distribution	0.04297	375	
P9243000 450MHZ Radio Replacement	Total 127,344	Other	General	0.07618	9,701	
P0000502 Waiau Minor Gen Addns	Total 53,122	Other	General	0.07618	4,047	
	11,899,658	Other Total			906,226	0.07616
P0000064 BPT Waiau Fuel Pipeline Proj	Total 40,880	Reliability	Steam Production	0.01813	741	
P0000078 KS Boiler Controls Upgrade	Total 12,579	Reliability	Steam Production	0.01813	228	
P0000089 Pwr Quality Monitor Install	Total 4,607	Reliability	Distribution	0.04297	198	
P0000120 Corr (Inc Emg) OH Trsf Rpl	Total 402,288	Reliability	Distribution	0.04297	17,286	
P0000121 Corr (Inc Emg) UG Trsf Rpl	Total 335,290	Reliability	Distribution	0.04297	14,407	
P0000122 Cor (Inc Emg) Mis Cable Rpl	Total 3,855,608	Reliability	Distribution	0.04297	165,675	
P0000123 Corr (Inc Emg) OH Dist Rpl	Total 2,298,496	Reliability	Distribution	0.04297	98,766	
P0000124 Cor (Inc Emg) OH Subtrn Rpl	Total 285,719	Reliability	Transmission	0.02948	8,423	
P0000143 Salt Lake Blvd Widening Ph2	Total 2,957,571	Reliability	Distribution	0.04297	127,087	
P0000190 Waikiki Rehab Project 1	Total 632,203	Reliability	Distribution	0.04297	27,166	
P0000203 W4 Waiau 4 Ignitor Replace	Total 159,039	Reliability	Steam Production	0.01813	2,883	
P0000209 W4 Cycle Chem Instr.	Total 579,167	Reliability	Steam Production	0.01813	10,500	
P0000211 W6 Cycle Chem Instr.	Total 12,716	Reliability	Steam Production	0.01813	231	
P0000215 K2 Cycle Chem Instr.	Total 511,362	Reliability	Steam Production	0.01813	9,271	
P0000231 W8 BFP Rec Ctrl Valves Upg	Total 91,342	Reliability	Steam Production	0.01813	1,656	
P0000233 W7&8 Service Air Compressor	Total 22,338	Reliability	Steam Production	0.01813	405	
P0000277 New Kuahua Substation	Total 421,213	Reliability	Distribution	0.04297	18,100	
P0000278 Makalapa Substation Prot	Total 762,653	Reliability	Distribution	0.04297	32,771	
P0000279 Puuloa Substation Prot	Total 138	Reliability	Distribution	0.04297	6	
P0000282 Kuahua 46kv Ln Reconnect	Total 228	Reliability	Distribution	0.04297	10	
P0000299 W9 Compressor Wash	Total 187,137	Reliability	Non-Steam Prod	0.01072	2,006	
P0000300 W10 Compressor Wash	Total 167,863	Reliability	Non-Steam Prod	0.01072	1,799	

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PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2007 Depr	Classification Depr Rate
P0000338 K6 Burner Front Roof	Total 356	Reliability	Steam Production	0.01813	6	
P0000445 Trayer Sub Sw Repl Prog	Total 976	Reliability	Distribution	0.04297	42	
P0000454 K6 Fan Enclosure	Total 74,156	Reliability	Steam Production	0.01813	1,344	
P0000469 K5&6 Service Air Compressors	Total 187,521	Reliability	Steam Production	0.01813	3,400	
P0000485 W3 Waiau FWH 35 Replace	Total 63	Reliability	Steam Production	0.01813	1	
P0000490 H8&9 Emergency Generator	Total 156	Reliability	Steam Production	0.01813	3	
P0000491 K-H#2/Wai-Wah Str 86/25	Total 18,409	Reliability	Transmission	0.02948	543	
P0000505 Other Minor Gen Plt Addns	Total 171,705	Reliability	General	0.07618	13,081	
P0000508 PM-Makalapa MW Replace	Total 167,976	Reliability	General	0.07618	12,796	
P0000509 PM-Ewa Nui MW Replace	Total 238,516	Reliability	General	0.07618	18,170	
P0000510 PROG Circ Wtr Temp Monitors	Total 183,321	Reliability	Steam Production	0.01813	3,324	
P0000511 PROG BFP Automated Test	Total 254,375	Reliability	Steam Production	0.01813	4,612	
P0000530 Ka Iwi 12kV UG, Ph 1 Inc 2	Total 187,784	Reliability	Distribution	0.04297	8,069	
P0000562 Mokuone 46-12KV Line Ext	Total 623,430	Reliability	Distribution	0.04297	26,789	
P0000563 Mokuone 46-12KV Substation 1	Total 2,416	Reliability	Distribution	0.04297	104	
P0000565 W10 DCS Processor Upgrade	Total 684,080	Reliability	Non-Steam Prod	0.01072	7,333	
P0000590 PROG PP Security Hdwr Upgrd	Total 230,123	Reliability	Steam Production	0.01813	4,172	
P0000601 PROG Gen Prot Relay Replace	Total 359,420	Reliability	Steam Production	0.01813	6,516	
P0000609 K2 Blr Access Door Addition	Total 63	Reliability	Steam Production	0.01813	1	
P0000629 K1-6 Swgr Rm Smoke Detectors	Total 35,840	Reliability	Steam Production	0.01813	650	
P0000633 K4 Exciter/Regulator Upgrade	Total 10,173	Reliability	Steam Production	0.01813	184	
P0000641 K6 AEH Limit Switch Upgrd	Total 10,524	Reliability	Steam Production	0.01813	191	
P0000646 K2 Kahe FWH 24 Replace	Total 7,081	Reliability	Steam Production	0.01813	128	
P0000647 K2 Kahe FWH 23 Replace	Total 8,107	Reliability	Steam Production	0.01813	147	
P0000657 W10 Exhaust Duct Replacement	Total 950,077	Reliability	Non-Steam Prod	0.01072	10,185	
P0000658 W9 Exhaust Duct Replacement	Total (168,125)	Reliability	Non-Steam Prod	0.01072	(1,802)	
P0000659 K2 Kahe FWH 25 Replacement	Total 5,669	Reliability	Steam Production	0.01813	103	
P0000667 K0 Kahe Sewer System Upgrd	Total 164	Reliability	Steam Production	0.01813	3	
P0000669 Kakaako ID10	Total 39,883	Reliability	Distribution	0.04297	1,714	
P0000678 PROG Kahe H2 Gas Dryers	Total 185,497	Reliability	Steam Production	0.01813	3,363	
P0000682 W6 Annunciator Upgrade	Total 12,705	Reliability	Steam Production	0.01813	230	
P0000690 W5 Annunciator Upgrade	Total 390	Reliability	Steam Production	0.01813	7	
P0000713 Dispatch Center Building	Total 13,722,151	Reliability	General	0.07618	1,045,353	
P0000715 Dispatch Boards	Total 277,716	Reliability	General	0.07618	21,156	
P0000717 EMS Replacement	Total 6,013,367	Reliability	General	0.07618	458,098	
P0000718 Dispatch Training Simulator	Total 181,944	Reliability	General	0.07618	13,861	
P0000733 Trns Sub RTU Migration Pgms	Total 275,231	Reliability	Transmission	0.02948	8,114	
P0000801 W4 Operator Console Upgrade	Total 360,447	Reliability	Steam Production	0.01813	6,535	
P0000821 K2 Battery Bank Replacement	Total 242	Reliability	Steam Production	0.01813	4	
P0000829 W4 Main Xfmr Replacement	Total 1,024,573	Reliability	Steam Production	0.01813	18,576	
P0000832 W3 Main Xfmr Replacement	Total 879	Reliability	Steam Production	0.01813	16	
P0000836 Ford Island Substation	Total 6,032,379	Reliability	Distribution	0.04297	259,211	
P0000837 Makalapa 46kV Brkr Addition	Total 39,864	Reliability	Transmission	0.02948	1,175	
P0000838 46kV Fdrs to FI Sub	Total 17,407,002	Reliability	Transmission	0.02948	513,158	
P0000842 Security/Wahiawa Sub	Total 2,726	Reliability	Transmission	0.02948	80	
P0000843 Security/Iwilei Sub	Total 1,422	Reliability	Transmission	0.02948	42	
P0000860 K2 Annunciator Replacement	Total 36,347	Reliability	Steam Production	0.01813	659	
P0000885 Midweek Auto-Transfer Swgr	Total 24,097	Reliability	Distribution	0.04297	1,035	
P0000901 K0 Kahe Reclaimed Oil Trnsfr	Total 318,502	Reliability	Steam Production	0.01813	5,774	
P0000911 Palehua East A 46kV Reloc	Total (4,536)	Reliability	Transmission	0.02948	(134)	
P0000917 Village Park - DB Cable Rpl	Total (198,894)	Reliability	Distribution	0.04297	(8,546)	
P0000929 Loop Feed Protection Tsf	Total 24,442	Reliability	Distribution	0.04297	1,050	
P0000932 Beretania North V4259 Rpl	Total 87,640	Reliability	Distribution	0.04297	3,766	
P0000933 K2 to CW Basin Pipe Trench	Total 16,180	Reliability	Steam Production	0.01813	293	
P0000936 PROG Waiau Turbine Drains	Total 0	Reliability	Steam Production	0.01813	0	
P0000939 W9 Waiau CT Separation	Total 929,292	Reliability	Non-Steam Prod	0.01072	9,962	
P0000949 Ocean Point SS Land Purchase	Total 219,593	Reliability	Land	0.00000	0	
P0000950 Ocean Point SS Tsf#1 Install	Total 1,633,769	Reliability	Distribution	0.04297	70,203	
P0000951 Ocean Pointe 46kV Lines	Total 1,547,694	Reliability	Transmission	0.02948	45,626	
P0000952 Ocean Pointe 12kV Lines	Total 149,085	Reliability	Distribution	0.04297	6,406	
P0000957 K1 MS Replacement	Total 120,586	Reliability	Steam Production	0.01813	2,186	
P0000958 K6 SSH Element Replacement	Total 2,577	Reliability	Steam Production	0.01813	47	
P0000962 W7 #71 TVL Screen Rpl	Total 133,829	Reliability	Steam Production	0.01813	2,426	
P0000968 PROG Process Parameter	Total 507,549	Reliability	Steam Production	0.01813	9,202	
P0000999 W3&4 Turb Roof Drain Piping	Total 274,249	Reliability	Steam Production	0.01813	4,972	
P0001004 HPP Perimeter Fence	Total 47,749	Reliability	Steam Production	0.01813	866	
P0001015 Wahiaawa-Waialua #2 P23X-P33	Total 543,819	Reliability	Transmission	0.02948	16,032	
P0001016 Lurline/Mariposa Cable Rpl	Total 991,593	Reliability	Distribution	0.04297	42,609	
P0001019 Structure 22 Wailupe #2 Rpl	Total 1,497	Reliability	Transmission	0.02948	44	
P0001024 K5 Kahe 52 Traveling Screen	Total 6,936	Reliability	Steam Production	0.01813	126	
P0001030 H0 H8&9 Roof Drain Piping	Total 68	Reliability	Steam Production	0.01813	1	
P0001031 K6 Flame Scanner Det Replace	Total 399	Reliability	Steam Production	0.01813	7	
P0001032 Honouliuli Reserv 46kV Reloc	Total (437)	Reliability	Transmission	0.02948	(13)	

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PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2007 Depr	Classification Depr Rate
P0001039 Purch Spare 8%, 10MVA Tsf	Total 43	Reliability	Distribution	0.04297	2	
P0001041 BWS Desal SS CID	Total (165)	Reliability	Distribution	0.04297	(7)	
P0001043 Ocean/BWS Desal Substation	Total (48)	Reliability	Distribution	0.04297	(2)	
P0001045 Palehua East B 46kV UG PH1	Total 504,746	Reliability	Transmission	0.02948	14,880	
P0001049 Mokapu 3 TSF Installation	Total 920,143	Reliability	Distribution	0.04297	39,539	
P0001053 HMSA Keeamoku Conversion	Total 34,142	Reliability	Distribution	0.04297	1,467	
P0001062 KO Kahe Lighting Protection	Total 19,154	Reliability	Steam Production	0.01813	347	
P0001065 Purchase Spare 20/33 MVA Tsf	Total 678,525	Reliability	Distribution	0.04297	29,156	
P0001066 Waiawa 4 Ckt Extension	Total 149,806	Reliability	Distribution	0.04297	6,437	
P0001067 PROG Air Htr Rtr Stop Alarm	Total 25,992	Reliability	Steam Production	0.01813	471	
P0001068 Replace EW 8%, 10 MVA Tsf	Total (2,194)	Reliability	Distribution	0.04297	(94)	
P0001075 Kam Hy-Kokololio Bridge Temp	Total 181,751	Reliability	Transmission	0.02948	5,358	
P0001077 Manoa Sub 4 kV Upgrade	Total 269,784	Reliability	Distribution	0.04297	11,593	
P0001079 W8 Aux Xfrm Replacement	Total 199,612	Reliability	Steam Production	0.01813	3,619	
P0001080 Ko Oolina Parcel 50 46/12kV	Total 165,812	Reliability	Land	0.00000	0	
P0001082 Waiau-Makalapa #2 NCI Repl	Total 96,024	Reliability	Transmission	0.02948	2,831	
P0001122 Kahuku CACTF 12kV Relo & Svc	Total 0	Reliability	Distribution	0.04297	0	
P0001139 W9 Bentley-Nevada Upgrade	Total 203,385	Reliability	Non-Steam Prod	0.01072	2,180	
P0001140 W10 Bentley-Nevada Upgrade	Total 220,666	Reliability	Non-Steam Prod	0.01072	2,366	
P0001144 Helemano - Substation DG	Total 324,468	Reliability	Non-Steam Prod	0.01072	3,478	
P0001145 Ewa Nul - Substation DG	Total 133,273	Reliability	Non-Steam Prod	0.01072	1,429	
P0001146 Iwilei Tank Farm DG	Total 138,832	Reliability	Non-Steam Prod	0.01072	1,488	
P0001148 AED Upgrade Project	Total 285,861	Reliability	General	0.07618	21,777	
P0001153 Second Spare 8% 10MVA Tsf	Total 403,968	Reliability	Distribution	0.04297	17,359	
P0001156 Alakawa St 11.5kV UG Reloc	Total 154,778	Reliability	Transmission	0.02948	4,563	
P0001158 Walau-Koolau #1 Line Repl	Total 1,111,437	Reliability	Transmission	0.02948	32,765	
P0001159 Spare 15kV Switchgear 2006 #1	Total 177,192	Reliability	Distribution	0.04297	7,614	
01160 K6 FD Fan Motor Replacement	Total 118,715	Reliability	Steam Production	0.01813	2,152	
01164 W8 HP/IP Blade Replacement	Total 346,281	Reliability	Steam Production	0.01813	6,278	
P0001180 K2 Gen Protective Relay	Total 9,622	Reliability	Steam Production	0.01813	174	
P0001192 W10 Gen Protective Relay	Total 41,679	Reliability	Non-Steam Prod	0.01072	447	
P0001196 K4 Hydrogen Gas Dryer	Total 96,092	Reliability	Steam Production	0.01813	1,742	
P0001214 W4 Turbine Drains	Total 123,397	Reliability	Steam Production	0.01813	2,237	
P0001229 K4 FWH 43 Press/Temp Instr	Total 34,493	Reliability	Steam Production	0.01813	625	
P0001230 K4 FWH 44 Press/Temp Instr	Total 23,875	Reliability	Steam Production	0.01813	433	
P0001231 K4 FWH 45 Press/Temp Instr	Total 26,612	Reliability	Steam Production	0.01813	482	
P0001262 K4 Air Htr Rotor Stop Alarm	Total 22,229	Reliability	Steam Production	0.01813	403	
P0001298 W6 Heater Drip Pump Replace	Total 191,031	Reliability	Steam Production	0.01813	3,463	
P0001301 Kalaeloa Pole Yard DG	Total 1,640,060	Reliability	Non-Steam Prod	0.01072	17,581	
P0001302 CEIP-Substation DG	Total 1,123,719	Reliability	Non-Steam Prod	0.01072	12,046	
P0001311 Spare 15kV Switchgear 2006 #2	Total 192,793	Reliability	Distribution	0.04297	8,284	
P0001336 Camp Catlin Tsf Upgrade	Total 80,200	Reliability	Distribution	0.04297	3,446	
P0001386 W4 Turbine Supervisory Instr	Total 206,976	Reliability	Steam Production	0.01813	3,752	
P0001387 K6 BFP Motor Replacement	Total 103,134	Reliability	Steam Production	0.01813	1,870	
P1361000 Ko Oolina Sub Land	Total 71,523	Reliability	Land	0.00000	0	
P1370000 Distr R/W Purch (Blanket)	Total (5,773)	Reliability	Land	0.00000	0	
P1373000 46kv R/W Purch (blanket)	Total 17,455	Reliability	Land	0.00000	0	
P1429000 PROG Mlsc Power Plant Adds	Total 2,048,762	Reliability	Steam Production	0.01813	37,144	
P1470000 Minor Trans Sub Addns	Total 830,029	Reliability	Transmission	0.02948	24,469	
P1480000 Minor Dist Sub Addns	Total 157,149	Reliability	Distribution	0.04297	6,753	
P1789000 Preventive OH Transf Repl	Total 123,815	Reliability	Distribution	0.04297	5,320	
P1793000 Preventive UG Transf Repl	Total 433,619	Reliability	Distribution	0.04297	18,633	
P1810000 Prev Misc Cable Failure Rpl	Total 578,710	Reliability	Distribution	0.04297	24,867	
P1870000 PROG Power Station Misc	Total 239,025	Reliability	Steam Production	0.01813	4,334	
P1990000 Minor T&D System Programs	Total 748,177	Reliability	Distribution	0.04297	32,149	
P3400000 Prev OH Dist Repl	Total 1,793,110	Reliability	Distribution	0.04297	77,050	
P3401000 Prev OH Subtrans Repl	Total 1,032,238	Reliability	Transmission	0.02948	30,430	
P3402000 Prev OH Trans Repl	Total 700,838	Reliability	Transmission	0.02948	20,661	
P6640000 New Interchange Improv	Total 30,686	Reliability	Distribution	0.04297	1,319	
P8290000 Tripler-Wahiawa MWR Replace	Total 542,307	Reliability	General	0.07618	41,313	
P8470000 Koolau/Tripler MWR Repl	Total 672,380	Reliability	General	0.07618	51,222	
P8820000 W4 Exciter Upgrade	Total 1,088,948	Reliability	Steam Production	0.01813	19,743	
P9360000 Kakaako ID7 Kamakee St Conv	Total 27,920	Reliability	Distribution	0.04297	1,200	
P9540000 K4 Boiler Control Upgrade	Total 4,560,910	Reliability	Steam Production	0.01813	82,689	
P9511000 Generation Hotline Upgrd	Total 131,288	Reliability	General	0.07618	10,002	
P9541000 K4 Performance Monitor	Total 827,560	Reliability	Steam Production	0.01813	15,004	
P9544000 PROG FO Trnk Lvl Gauge Upgrd	Total 476,456	Reliability	Steam Production	0.01813	8,638	
P9904000 H1 WIDENING AIEA	Total 87,132	Reliability	Distribution	0.04297	3,744	
	98,968,997				4,017,722	0.04060
	131,037,917				5,787,307	
		Reliability Total				
		Grand Total				

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PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2008 Depr	Classification Depr Rate
P0000474 WSC Privatization	Total 717,844	Customer Add	Distribution	0.04299	30,860	
P0000793 Field Service/Meter Reading	Total 560,489	Customer Add	General	0.07654	42,900	
P1510000 Misc OH Svc & Extn (CID)	Total 1,780,320	Customer Add	Distribution	0.04299	76,536	
P1580000 Minor OH Dist Addn (CID)	Total 1,348,844	Customer Add	Distribution	0.04299	57,987	
P1670000 P&I&Test Meters & Mtr Eq	Total 1,416,315	Customer Add	Distribution	0.04299	60,887	
P1680000 Tsf & Equip Pur CID	Total 7,324,016	Customer Add	Distribution	0.04299	314,859	
P1690000 Minor T&D Customer Programs	Total 192,813	Customer Add	Transmission	0.02912	5,615	
P1700000 Misc UG Svc & Extn (CID)	Total 13,739,270	Customer Add	Distribution	0.04299	590,651	
P1820000 Minor UG Addns (CID)	Total 980,562	Customer Add	Distribution	0.04299	42,154	
	28,060,475	Customer Add Total			1,222,450	0.04356
P0000499 Ward A/C Imprv Phase II	Total 41,611	Other	General	0.07654	3,185	
P0000500 Misc Office Furniture	Total 211,629	Other	General	0.07654	16,198	
P0000501 Misc Office Equipment	Total 27,948	Other	General	0.07654	2,139	
P0000502 Waiau Minor Gen Addns	Total 161,048	Other	General	0.07654	12,327	
P0000503 Ward Ave Minor Addns	Total 167,780	Other	General	0.07654	12,842	
P0000504 King St Minor Addns	Total 82,598	Other	General	0.07654	6,322	
P0000571 CIS Replacement	Total 306,050	Other	General	0.07654	23,425	
P0000652 Enterprise Computing	Total 6,047	Other	General	0.07654	463	
P0000653 Collaborative Communications	Total 50,840	Other	General	0.07654	3,891	
P0000692 CSD Technical Support Prgrm	Total 150,244	Other	General	0.07654	11,500	
P0000716 Telecomm Extensions	Total 161,750	Other	General	0.07654	12,380	
P0000794 Call Center-1st floor	Total 374,328	Other	General	0.07654	28,651	
P0000826 ITS Renovation	Total 107,444	Other	General	0.07654	8,224	
P0000835 Comm Links Mamala Sub	Total 304,558	Other	General	0.07654	23,311	
P0000839 Comm. Links FI-Makipa	Total 3,324	Other	General	0.07654	254	
P0000962 W7 #71 TVL Screen Repl	Total 1,734	Other	Steam Production	0.01797	31	
P0001003 Ward Ave Turnstile Gate	Total 36,009	Other	General	0.07654	2,756	
P0001117 Ward A/C Sys Op & Bsmt	Total 89,075	Other	General	0.07654	6,818	
P0001166 Shared UNIX Infrastructure	Total 420,318	Other	General	0.07654	32,171	
P0001281 A/C Upgrade at Data Center	Total 396,525	Other	General	0.07654	30,350	
P0001323 King Gutter System	Total 178,462	Other	General	0.07654	13,659	
P0001341 Ellipse Migration to Unix	Total 118,951	Other	General	0.07654	9,104	
P0001360 Cooke Street Turnstile Gate	Total 53,381	Other	General	0.07654	4,086	
P0001365 Security Trailer Relocation	Total 37,328	Other	General	0.07654	2,857	
P0001402 Ward Roof Top Parking Impv	Total 212,760	Other	General	0.07654	16,285	
P0001491 HECO CLS - CAPITAL	Total 455,645	Other	Distribution	0.04299	19,588	
P1081000 Capitalized Tools & Equip	Total 1,164,896	Other	General	0.07654	89,161	
P1243000 PCs, Servers & Network	Total 1,376,356	Other	General	0.07654	105,346	
P1244000 Printers/Copiers/Faxes	Total 85,943	Other	General	0.07654	6,578	
P1250000 Capital Vehicle Budget	Total 3,087,477	Other	General	0.07654	236,316	
P1500000 Misc CM Fac-Op & Ctrl (TD)	Total 418,770	Other	General	0.07654	32,053	
P4150000 Monitoring Services	Total 41,627	Other	Distribution	0.04299	1,790	
	10,332,456	Other Total			774,061	0.07492
P0000063 Conv Halawa School 138kv	Total 38,255	Reliability	Transmission	0.02912	1,114	
P0000078 KS Boiler Controls Upgrade	Total 11,116	Reliability	Steam Production	0.01797	200	
P0000089 Pwr Quality Monitor Install	Total 26,351	Reliability	Distribution	0.04299	1,133	
P0000091 H9 Attemperator Block Valve	Total 87,456	Reliability	Steam Production	0.01797	1,572	
P0000120 Corr (Inc Emg) OH Trsf Rpl	Total 378,128	Reliability	Distribution	0.04299	16,256	
P0000121 Corr (Inc Emg) UG Trsf Rpl	Total 404,070	Reliability	Distribution	0.04299	17,371	
P0000122 Cor (Inc Emg) Mis Cable Rpl	Total 6,005,902	Reliability	Distribution	0.04299	258,194	
P0000123 Corr (Inc Emg) OH Dist Rpl	Total 2,893,231	Reliability	Distribution	0.04299	124,380	
P0000124 Cor (Inc Emg) OH Subtrn Rpl	Total 444,762	Reliability	Transmission	0.02912	12,951	
P0000143 Salt Lake Blvd Widening Ph2	Total 804	Reliability	Distribution	0.04299	35	
P0000190 Waikiki Rehab Project 1	Total 15,980	Reliability	Distribution	0.04299	687	
P0000203 W4 Waiau 4 Ignitor Replace	Total 685	Reliability	Steam Production	0.01797	12	
P0000209 W4 Cycle Chem Instr.	Total 3,935	Reliability	Steam Production	0.01797	71	
P0000277 New Kuahua Substation	Total 1,128	Reliability	Distribution	0.04299	48	
P0000278 Makalapa Substation Prot	Total 3,249	Reliability	Distribution	0.04299	140	
P0000299 W9 Compressor Wash	Total 6,902	Reliability	Non-Steam Prod	0.01139	79	
P0000300 W10 Compressor Wash	Total 853	Reliability	Non-Steam Prod	0.01139	10	
P0000336 K5 Burner Front Roof	Total 458	Reliability	Steam Production	0.01797	8	
P0000338 K6 Burner Front Roof	Total 458	Reliability	Steam Production	0.01797	8	
P0000445 Trayer Sub Sw Repl Prog	Total 117,581	Reliability	Distribution	0.04299	5,055	
P000454 K6 Fan Enclosure	Total 195	Reliability	Steam Production	0.01797	3	
P000458 Kahe Pond 1A Clean & Lining	Total 0	Reliability	Steam Production	0.01797	0	
P000462 W7 Waiau 7 ERV Replace	Total 132,642	Reliability	Steam Production	0.01797	2,384	
P000490 H8&9 Emergency Generator	Total 390	Reliability	Steam Production	0.01797	7	
P0000505 Other Minor Gen Plt Addns	Total 63,839	Reliability	General	0.07654	4,886	
P0000508 PM-Makalapa MW Replace	Total 1,024	Reliability	General	0.07654	78	
P0000509 PM-Ewa Nui MW Replace	Total 1,171	Reliability	General	0.07654	90	

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PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2008 Depr	Classification Depr Rate
P0000510 PROG Circ Wtr Temp Monitors	Total 1,933	Reliability	Steam Production	0.01797	35	
P0000530 Ka Iwi 12kV UG, Ph 1 Inc 2	Total 129,234	Reliability	Distribution	0.04299	5,556	
P0000542 Ward Disaster Generator	Total 655,610	Reliability	General	0.07654	50,180	
P0000562 Mokuhone 46-12kV Line Ext	Total (399)	Reliability	Distribution	0.04299	(17)	
P0000590 PROG PP Security Hdwr Upgrd	Total (308)	Reliability	Steam Production	0.01797	(6)	
P0000596 HECO/Tesoro Oil Pipeline	Total (46,977)	Reliability	Steam Production	0.01797	(844)	
P0000601 PROG Gen Prot Relay Replace	Total (16)	Reliability	Steam Production	0.01797	(0)	
P0000610 K1 Blr Access Door Addition	Total 145,053	Reliability	Steam Production	0.01797	2,607	
P0000611 Kaneohe Bay Dr Improvements	Total 94,153	Reliability	Distribution	0.04299	4,048	
P0000632 K3 Exciter/Regulator Upgrade	Total 854,695	Reliability	Steam Production	0.01797	15,359	
P0000640 HO Honolulu Demin Upgrade	Total 1,773,982	Reliability	Steam Production	0.01797	31,878	
P0000646 K2 Kahe FWH 24 Replace	Total 27,580	Reliability	Steam Production	0.01797	496	
P0000647 K2 Kahe FWH 23 Replace	Total 26,719	Reliability	Steam Production	0.01797	480	
P0000657 W10 Exhaust Duct Replacement	Total 23,697	Reliability	Non-Steam Prod	0.01139	270	
P0000659 K2 Kahe FWH 25 Replacement	Total 27,103	Reliability	Steam Production	0.01797	487	
P0000690 W5 Annunciator Upgrade	Total 1,067	Reliability	Steam Production	0.01797	19	
P0000713 Dispatch Center Building	Total 47,517	Reliability	General	0.07654	3,637	
P0000714 Materials Storage Relocation	Total 132,303	Reliability	General	0.07654	10,126	
P0000715 Dispatch Boards	Total 3,141	Reliability	General	0.07654	240	
P0000717 EMS Replacement	Total 3,502	Reliability	General	0.07654	268	
P0000718 Dispatch Training Simulator	Total 40,448	Reliability	General	0.07654	3,096	
P0000733 Trns Sub RTU Migration Pgm	Total 54,158	Reliability	Transmission	0.02912	1,577	
P0000800 K1 Operator Console Upgrade	Total 404,748	Reliability	Steam Production	0.01797	7,273	
P0000801 W4 Operator Console Upgrade	Total 1,342	Reliability	Steam Production	0.01797	24	
P0000803 W3 Operator Console Upgrade	Total 811	Reliability	Steam Production	0.01797	15	
P0000808 K3 Annunciator Replacement	Total 928,213	Reliability	Steam Production	0.01797	16,680	
P0000809 K6 Annunciator Replacement	Total 22,323	Reliability	Steam Production	0.01797	401	
P0000813 K3&4 Control Room AC	Total 186,999	Reliability	Steam Production	0.01797	3,360	
P0000815 H9 Volt Reg/Exciter Replace	Total 1,361,505	Reliability	Steam Production	0.01797	24,466	
P0000821 K2 Battery Bank Replacement	Total 874	Reliability	Steam Production	0.01797	16	
P0000827 K3 DCS Balance of Plant I/O	Total 346,637	Reliability	Steam Production	0.01797	6,229	
P0000828 Outage Management System	Total 575,934	Reliability	General	0.07654	44,082	
P0000829 W4 Main Xfmr Replacement	Total 215	Reliability	Steam Production	0.01797	4	
P0000833 Mamala Substation	Total 2,237,596	Reliability	Distribution	0.04299	96,194	
P0000834 46kV Fdrs to Mamala Sub	Total 4,882,554	Reliability	Transmission	0.02912	142,180	
P0000836 Ford Island Substation	Total 15,000	Reliability	Distribution	0.04299	645	
P0000837 Makalapa 46kV Brkr Addition	Total 2,685	Reliability	Transmission	0.02912	78	
P0000838 46kV Fdrs to FI Sub	Total 5,665	Reliability	Transmission	0.02912	165	
P0000857 W7 Aux Transformer	Total 311,882	Reliability	Steam Production	0.01797	5,605	
P0000860 K2 Annunciator Replacement	Total 54	Reliability	Steam Production	0.01797	1	
P0000862 W7 Cond. Refurbishment	Total 1,664,116	Reliability	Steam Production	0.01797	29,904	
P0000870 H9 Generator Rotor Rewind	Total 1,540,686	Reliability	Steam Production	0.01797	27,686	
P0000917 Village Park - DB Cable Rpl	Total 20,927	Reliability	Distribution	0.04299	900	
P0000929 Loop Feed Protection Tsf	Total 0	Reliability	Distribution	0.04299	0	
P0000939 W9 Walau CT Separation	Total 46	Reliability	Non-Steam Prod	0.01139	1	
P0000940 Pearl Highlands 2nd Fdr	Total 14,515	Reliability	Distribution	0.04299	624	
P0000943 HO Honolulu Boiler Wash sump	Total 409,867	Reliability	Steam Production	0.01797	7,365	
P0000949 Ocean Point SS Land Purchase	Total 815	Reliability	Land	0.00000	0	
P0000950 Ocean Point SS Tsf#1 Install	Total 105,884	Reliability	Distribution	0.04299	4,552	
P0000951 Ocean Pointe 46kV Lines	Total 826	Reliability	Transmission	0.02912	24	
P0000957 K1 MS Replacement	Total 1,451,555	Reliability	Steam Production	0.01797	26,084	
P0000959 H9 SSH Element Replacement	Total 1,334,370	Reliability	Steam Production	0.01797	23,979	
P0000983 W5 Waiau 5/6 Elevator Upgrd	Total 230,997	Reliability	Steam Production	0.01797	4,151	
P0001009 K1 Battery Bank Replacement	Total 59,520	Reliability	Steam Production	0.01797	1,070	
P0001015 Wahiawa-Waialua #2 P23X-P33	Total 41,404	Reliability	Transmission	0.02912	1,206	
P0001016 Luriine/Mariposa Cable Repl	Total 13,863	Reliability	Distribution	0.04299	596	
P0001045 Palehua East B 46kV UG PH1	Total 62,906	Reliability	Transmission	0.02912	1,832	
P0001046 Palehua East B 46kV UG PH2	Total 219,097	Reliability	Transmission	0.02912	6,380	
P0001047 HECO Vault 15 Relocate	Total 1,177,299	Reliability	Distribution	0.04299	50,612	
P0001049 Mokapu 3 TSF Installation	Total 7,881	Reliability	Distribution	0.04299	339	
P0001072 Kakaaako ID 12	Total 1,668,597	Reliability	Distribution	0.04299	71,733	
P0001076 Kam Hy-Kokololio Bridge Perm	Total 39,598	Reliability	Transmission	0.02912	1,153	
P0001077 Manoa Sub 4 kV Upgrade	Total 7,555	Reliability	Distribution	0.04299	325	
P0001079 W8 Aux Xfmr Replacement	Total 1,769	Reliability	Steam Production	0.01797	32	
P0001087 Replace CEIP Multimode Fiber	Total 2,061	Reliability	General	0.07654	158	
P0001094 EAI Phase 2-Reliability	Total 63,544	Reliability	General	0.07654	4,864	
P0001095 EAI Phase 3 -QA	Total 33,427	Reliability	General	0.07654	2,559	
P0001130 K3 Kahe 32 TVL Screen	Total 252,585	Reliability	Steam Production	0.01797	4,539	
P0001133 WB Waiau FWH 83 Replace	Total 508,420	Reliability	Steam Production	0.01797	9,136	
P0001144 Helemano - Substation DG	Total 61,850	Reliability	Non-Steam Prod	0.01139	704	

Depreciation for 2007 Additions

PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2008 Depr	Classification Depr Rate
P0001145 Ewa Nui - Substation DG	Total 282,810	Reliability	Non-Steam Prod	0.01139	3,221	
P0001146 Iwilei Tank Farm DG	Total 101,780	Reliability	Non-Steam Prod	0.01139	1,159	
P0001149 H9 Honolulu 9 O2 Analyzer	Total 99,244	Reliability	Steam Production	0.01797	1,783	
P0001152 W0 Waiau Shift Supervisor Off	Total 325,279	Reliability	Steam Production	0.01797	5,845	
P0001156 Alakawa St 11.5kV UG Reloc	Total 1,421	Reliability	Transmission	0.02912	41	
P0001157 Honouliuli Reservoir 12kV Line	Total 69,804	Reliability	Distribution	0.04299	3,001	
P0001158 Waiau-Koolau #1 Line Repl	Total 4,517	Reliability	Transmission	0.02912	132	
P0001161 W0 Waiau Solar FS Upgrade	Total 421,892	Reliability	Non-Steam Prod	0.01139	4,805	
P0001164 W8 HP/IP Blade Replacement	Total 9,137	Reliability	Steam Production	0.01797	164	
P0001175 K1 BFP Automated Test	Total 146,940	Reliability	Steam Production	0.01797	2,641	
P0001176 K4 BFP Automated Test	Total 33,624	Reliability	Steam Production	0.01797	604	
P0001178 W4 BFP Automated Test	Total 53,880	Reliability	Steam Production	0.01797	968	
P0001179 K1 Gen Protective Relay	Total 35,100	Reliability	Steam Production	0.01797	631	
P0001181 K3 Gen Protective Relay	Total 68,773	Reliability	Steam Production	0.01797	1,236	
P0001186 W4 Gen Protective Relay	Total 25,941	Reliability	Steam Production	0.01797	466	
P0001193 K1 Hydrogen Gas Dryer	Total 133,112	Reliability	Steam Production	0.01797	2,392	
P0001195 K3 Hydrogen Gas Dryer	Total 98,943	Reliability	Steam Production	0.01797	1,778	
P0001203 W7 Hydrogen Gas Dryer	Total 122,618	Reliability	Steam Production	0.01797	2,203	
P0001205 K1 Turbine Drains	Total 221,040	Reliability	Steam Production	0.01797	3,972	
P0001221 K1 FWH 13 Press/Temp Instr	Total 52,602	Reliability	Steam Production	0.01797	945	
P0001222 K1 FWH 15 Press/Temp Instr	Total 57,962	Reliability	Steam Production	0.01797	1,042	
P0001225 K3 FWH 31 Press/Temp Instr	Total 101,706	Reliability	Steam Production	0.01797	1,828	
P0001226 K3 FWH 32 Press/Temp Instr	Total 74,288	Reliability	Steam Production	0.01797	1,335	
P0001227 K3 FWH 33 Press/Temp Instr	Total 63,968	Reliability	Steam Production	0.01797	1,150	
P0001228 K3 FWH 35 Press/Temp Instr	Total 82,007	Reliability	Steam Production	0.01797	1,474	
P0001229 K4 FWH 43 Press/Temp Instr	Total 28	Reliability	Steam Production	0.01797	1	
P0001230 K4 FWH 44 Press/Temp Instr	Total 28	Reliability	Steam Production	0.01797	1	
P0001231 K4 FWH 45 Press/Temp Instr	Total 28	Reliability	Steam Production	0.01797	1	
P0001243 K1 Process Parameter Monitor	Total 289,147	Reliability	Steam Production	0.01797	5,196	
P0001244 K3 Process Parameter Monitor	Total 137,335	Reliability	Steam Production	0.01797	2,468	
P0001245 K4 Process Parameter Monitor	Total 72,963	Reliability	Steam Production	0.01797	1,311	
P0001249 W4 Process Parameter Monitor	Total 203,228	Reliability	Steam Production	0.01797	3,652	
P0001250 W7 Process Parameter Monitor	Total 323,775	Reliability	Steam Production	0.01797	5,818	
P0001261 K3 Air Htr Rotor Stop Alarm	Total 19,724	Reliability	Steam Production	0.01797	354	
P0001265 W7 Air Htr Rotor Stop Alarm	Total 53,879	Reliability	Steam Production	0.01797	968	
P0001267 H9 Air Htr Rotor Stop Alarm	Total 34,531	Reliability	Steam Production	0.01797	621	
P0001268 Capitol Place - Relo. V920	Total 155,485	Reliability	Distribution	0.04299	6,684	
P0001284 W8 Waiau FWH 84 Replace	Total 963,800	Reliability	Steam Production	0.01797	17,319	
P0001298 W6 Heater Drip Pump Replace	Total 37,589	Reliability	Steam Production	0.01797	675	
P0001299 W5 Heater Drip Pump Replace	Total 212,081	Reliability	Steam Production	0.01797	3,811	
P0001301 Kalaeloa Pole Yard DG	Total (129,235)	Reliability	Non-Steam Prod	0.01139	(1,472)	
P0001302 CEIP-Substation DG	Total 90,951	Reliability	Non-Steam Prod	0.01139	1,036	
P0001303 Ewa Nui DG 4-5-6	Total 2,443,536	Reliability	Non-Steam Prod	0.01139	27,832	
P0001305 Mililani Mauka Offsite Ph 16	Total 407,263	Reliability	Transmission	0.02912	11,860	
P0001307 KO Kahe Rolloff Area	Total 294,702	Reliability	Steam Production	0.01797	5,296	
P0001311 Spare 15kV Switchgear 2006 #2	Total 16,597	Reliability	Distribution	0.04299	714	
P0001312 Princess Thtr Trayer Sw Repl	Total 6,870	Reliability	Distribution	0.04299	295	
P0001313 HECO V114 Trayer SW Repl	Total 22,234	Reliability	Distribution	0.04299	956	
P0001317 Ala Wai V4732 Trayer Sw Repl	Total 19,772	Reliability	Distribution	0.04299	850	
P0001319 Mamala Phase 2-Hickam	Total 9,879	Reliability	Distribution	0.04299	425	
P0001321 K1 Kahe 11&12 ACW Heat Exch	Total 951,989	Reliability	Steam Production	0.01797	17,107	
P0001336 Camp Catlin Tsf Upgrade	Total 1,771	Reliability	Distribution	0.04299	76	
P0001337 Spare 8% Tsf 2006 #1	Total 524,165	Reliability	Distribution	0.04299	22,534	
P0001338 Spare 8% Tsf 2006 #2	Total 520,875	Reliability	Distribution	0.04299	22,392	
P0001339 Halawa Quarry Tsf Repl	Total 320,866	Reliability	Distribution	0.04299	13,794	
P0001348 Baseyards Priority 2 - 2007	Total 149,725	Reliability	General	0.07654	11,460	
P0001352 MEVA Priority 1 - 2007	Total 354,753	Reliability	General	0.07654	27,153	
P0001356 Mamala Phase 2 - Mamala	Total 1,310,623	Reliability	Distribution	0.04299	56,344	
P0001363 FM200 System	Total 112,810	Reliability	General	0.07654	8,635	
P0001385 Fort St Mall-Campbell Ducts	Total 155,771	Reliability	Distribution	0.04299	6,697	
P0001386 W4 Turbine Supervisory Instr	Total 11,528	Reliability	Steam Production	0.01797	207	
P0001395 Second Spare 15kV Switchgear	Total 207,309	Reliability	Distribution	0.04299	8,912	
P0001396 UH Quarry Tsf Replacement	Total 618,844	Reliability	Distribution	0.04299	26,604	
P0001398 Mamala Phase 3	Total 235,909	Reliability	Distribution	0.04299	10,142	
P0001406 CEIP46 Recond (near FW)	Total 222,343	Reliability	Transmission	0.02912	6,475	
P0001411 Waiau 138KV Bkr 111 Replace	Total 223,443	Reliability	Transmission	0.02912	6,507	
P0001412 Kahe 138KV Bkr 169 Replace	Total 172,600	Reliability	Transmission	0.02912	5,026	
P0001414 Archer 43 46 kV Ckt Reconect	Total 27,355	Reliability	Transmission	0.02912	797	
P0001439 W6 Gland Seal Head Tank	Total 125,261	Reliability	Steam Production	0.01797	2,251	
P0001476 Spare 138kV 63KA Breaker	Total 129,101	Reliability	Transmission	0.02912	3,759	

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PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2008 Depr	Classification Depr Rate
P0001521 Purch 50 Ton Crane RTC8050	Total 563,814	Reliability	General	0.07654	43,154	
P0001526 H9 BFP 93 Motor Replacement	Total 170,508	Reliability	Steam Production	0.01797	3,064	
P0001527 W07 FWH75 3-Way Valve	Total 119,251	Reliability	Steam Production	0.01797	2,143	
P0001528 W3 Replace Aux CW Pump 31	Total 156,191	Reliability	Steam Production	0.01797	2,807	
P0001530 W4 #41 Scrn Wash Pmp Replmnt	Total 103,870	Reliability	Steam Production	0.01797	1,867	
P1370000 Distr R/W Purch (Blanket)	Total 2,390	Reliability	Land	0.00000	0	
P1373000 46kv R/W Purch (blanket)	Total 525	Reliability	Land	0.00000	0	
P29000 PROG Misc Power Plant Adds	Total 1,549,839	Reliability	Steam Production	0.01797	27,851	
P70000 Minor Trans Sub Addns	Total 673,566	Reliability	Transmission	0.02912	19,614	
P1480000 Minor Dist Sub Addns	Total 1,299,720	Reliability	Distribution	0.04299	55,875	
P1789000 Preventive OH Transf Repl	Total 80,162	Reliability	Distribution	0.04299	3,446	
P1793000 Preventive UG Transf Repl	Total 198,552	Reliability	Distribution	0.04299	8,536	
P1810000 Prev Misc Cable Failure Rpl	Total 808,923	Reliability	Distribution	0.04299	34,776	
P1870000 PROG Power Station Misc	Total 433,965	Reliability	Steam Production	0.01797	7,798	
P1990000 Minor T&D System Programs	Total 1,073,188	Reliability	Distribution	0.04299	46,136	
P3400000 Prev OH Dist Repl	Total 1,926,012	Reliability	Distribution	0.04299	82,799	
P3401000 Prev OH Subtrans Repl	Total 1,327,462	Reliability	Transmission	0.02912	38,656	
P3402000 Prev OH Trans Repl	Total 418,080	Reliability	Transmission	0.02912	12,174	
P8290000 Tripler-Wahiawa MWR Replace	Total 151,749	Reliability	General	0.07654	11,615	
P8470000 Koolau/Tripler MWR Repl	Total 225,840	Reliability	General	0.07654	17,286	
P8820000 W4 Exciter Upgrade	Total 9,154	Reliability	Steam Production	0.01797	164	
P9454000 K4 Boiler Control Upgrade	Total 50,422	Reliability	Steam Production	0.01797	906	
P9497000 Honolulu Spur	Total 144,125	Reliability	Steam Production	0.01797	2,590	
P9511000 Generation Hotline Upgrd	Total 16,710	Reliability	General	0.07654	1,279	
P9539000 K3 Boiler Control Upgrade	Total 4,185,117	Reliability	Steam Production	0.01797	75,207	
P9541000 K4 Performance Monitor	Total 1,322	Reliability	Steam Production	0.01797	24	
	67,357,850	Reliability Total			2,104,311	0.03124
P0001309 Net Energy Metering	Total 2,644	Renew Not Surcharge	Distribution	0.04299	114	
P0001394 AMI - Ocean Point	Total 341,201	Renew Not Surcharge	Distribution	0.04299	14,668	
	343,845	Renew Not Surcharge Total			14,782	0.04299
	106,094,625	Grand Total			4,115,604	

Depreciation for 2008 Additions

PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2009 Depr	Classification Depr Rate
P0000474 WSC Privatization	Total 2,420	Customer Add	Distribution	0.04311	104	
P0000833 Mamala Substation	Total 16,288	Customer Add	Distribution	0.04311	702	
P0001356 Mamala Phase 2 - Mamala	Total 10,367	Customer Add	Distribution	0.04311	447	
P0001398 Mamala Phase 3	Total 1,645	Customer Add	Distribution	0.04311	71	
P0001566 Mamala Tsf Paralleling	Total 80,768	Customer Add	Distribution	0.04311	3,482	
P1510000 Misc OH Svc & Extn (CID)	Total 1,166,829	Customer Add	Distribution	0.04311	50,302	
P1580000 Minor OH Dist Addn (CID)	Total 1,714,178	Customer Add	Distribution	0.04311	73,898	
P1670000 P&I&Test Meters & Mtr Eq	Total 1,432,659	Customer Add	Distribution	0.04311	61,762	
P1680000 Tsf & Equip Pur CID	Total 4,458,180	Customer Add	Distribution	0.04311	192,192	
P1690000 Minor T&D Customer Programs	Total 571,891	Customer Add	Transmission	0.02943	16,831	
P1700000 Misc UG Svc & Extn (CID)	Total 8,331,964	Customer Add	Distribution	0.04311	359,191	
P1820000 Minor UG Addns (CID)	Total 1,461,882	Customer Add	Distribution	0.04311	63,022	
	19,249,069	Customer Add Total			822,004	0.04270
P0000500 Misc Office Furniture	Total 125,473	Other	General	0.07219	9,058	
P0000501 Misc Office Equipment	Total 29,230	Other	General	0.07219	2,110	
P0000503 Ward Ave Minor Addns	Total 91,757	Other	General	0.07219	6,624	
P0000504 King St Minor Addns	Total 5,487	Other	General	0.07219	396	
P0000571 CIS Replacement	Total 9,223	Other	General	0.07219	666	
P0000652 Enterprise Computing	Total 42,805	Other	General	0.07219	3,090	
P0000653 Collaborative Communications	Total 5,911	Other	General	0.07219	427	
P0000692 CSD Technical Support Prgrm	Total 38,012	Other	General	0.07219	2,744	
P0000716 Telecomm Extensions	Total 20,051	Other	General	0.07219	1,447	
P0000793 Field Service/Meter Reading	Total 2,497	Other	General	0.07219	180	
P0000794 Call Center-1st floor	Total 11,034	Other	General	0.07219	797	
P0000795 Parking-C&M,SysOp,&Employee	Total 250,510	Other	General	0.07219	18,084	
P0000839 Comm. Links FI-Makipa	Total 141,027	Other	General	0.07219	10,181	
P0000990 Waiau-Makalapa FO Replacement	Total 629,702	Other	General	0.07219	45,458	
P000997 TWO-Way radio upgrade	Total 83,353	Other	General	0.07219	6,017	
P001112 Waiau Chem Lab	Total 280,698	Other	Steam Production	0.01776	4,985	
P0001117 Ward A/C Sys Op & Bsmt	Total 1,236	Other	General	0.07219	89	
P0001166 Shared UNIX Infrastructure	Total 22,775	Other	General	0.07219	1,644	
P0001294 Ward 1/2 Safety Access Impvm	Total 302,024	Other	General	0.07219	21,803	
P0001341 Ellipse Migration to Unix	Total 146,840	Other	General	0.07219	10,600	
P0001405 Enterprise Reporting System	Total 137,890	Other	General	0.07219	9,954	
P0001491 HECO CLS - CAPITAL	Total 20,429	Other	Distribution	0.04311	881	
P0001539 Waiau 2 Office	Total 227,324	Other	Steam Production	0.01776	4,037	
P1081000 ED Capitalized Tools & Equip	Total 731,447	Other	General	0.07219	52,803	
P1243000 PCs, Servers & Network	Total 1,299,108	Other	General	0.07219	93,783	
P1244000 Printers/Copiers/Faxes	Total 46,425	Other	General	0.07219	3,351	
P1250000 Capital Vehicle Budget	Total 3,255,361	Other	General	0.07219	235,005	
P1251000 Misc Tel Eqpt (NT)	Total 1,597	Other	General	0.07219	115	
P1500000 Misc CM Fac-Op & Ctrl (TD)	Total 766,199	Other	General	0.07219	55,312	
P1505000 Other Misc Comm Fac (SOD)	Total 288,625	Other	General	0.07219	20,836	
P4150000 Monitoring Services	Total 11,769	Other	Distribution	0.04311	507	
	9,025,818	Other Total			622,986	0.06902
P0000078 K5 Boiler Controls Upgrade	Total 1,133	Reliability	Steam Production	0.01776	20	
P0000091 H9 Attemperator Block Valve	Total 3,190	Reliability	Steam Production	0.01776	57	
P0000120 Corr (Inc Emg) OH Trsf Rpl	Total 265,621	Reliability	Distribution	0.04311	11,451	
P0000121 Corr (Inc Emg) UG Trsf Rpl	Total 307,007	Reliability	Distribution	0.04311	13,235	
P0000122 Cor (Inc Emg) Mis Cable Rpl	Total 3,784,251	Reliability	Distribution	0.04311	163,139	
P0000123 Corr (Inc Emg) OH Dist Rpl	Total 2,492,023	Reliability	Distribution	0.04311	107,431	
P0000124 Cor (Inc Emg) OH Subtrn Rpl	Total 702,802	Reliability	Transmission	0.02943	20,683	
P0000125 Cor (Inc Emg) OH Trans Rpl	Total 136,157	Reliability	Transmission	0.02943	4,007	
P0000267 K5 Data Acq & Monitoring	Total 213	Reliability	Steam Production	0.01776	4	
P0000299 W9 Compressor Wash	Total 4,383	Reliability	Non-Steam Prod	0.01107	49	
P0000465 K1&2 Service Air Compressors	Total 413,989	Reliability	Steam Production	0.01776	7,352	
P0000485 W3 Waiau FWH 35 Replace	Total 75	Reliability	Steam Production	0.01776	1	
P0000486 H8 Honolulu FWH 85 Replace	Total 930,227	Reliability	Steam Production	0.01776	16,521	
P0000487 H8 Honolulu FWH 82 Replace	Total 606,333	Reliability	Steam Production	0.01776	10,768	
P0000490 H889 Emergency Generator	Total 230,091	Reliability	Steam Production	0.01776	4,086	
P0000505 Other Minor Gen Plt Addns	Total 270,403	Reliability	General	0.07219	19,520	
P0000507 Kam Hy Resurf Waiahole-Cr Ln	Total 23,301	Reliability	Transmission	0.02943	686	
P0000542 Ward Disaster Generator	Total 80,982	Reliability	General	0.07219	5,846	
P0000564 W9 DCS Processor Upgrade	Total 395,052	Reliability	Non-Steam Prod	0.01107	4,373	
P0000575 Nimitz Highway Rehabilitation	Total (92,929)	Reliability	Distribution	0.04311	(4,006)	
P0000598 Kahekili Hy Ltg Imprv	Total 25,273	Reliability	Distribution	0.04311	1,090	
P0000622 K1 Kahe 13 FWH Replace	Total 615,625	Reliability	Steam Production	0.01776	10,934	
P0000632 K3 Exciter/Regulator Upgrade	Total (51,947)	Reliability	Steam Production	0.01776	(923)	
P0000634 W7&8 Boiler Wash Sump Pump	Total 437,637	Reliability	Steam Production	0.01776	7,772	
P0000636 W0 Waiau Chlorine Dioxide	Total 742,570	Reliability	Steam Production	0.01776	13,188	

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PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2009 Depr	Classification Depr Rate
P0000637 K0 Kahe Chlorine Dioxide	Total 825,508	Reliability	Steam Production	0.01776	14,661	
P0000640 H0 Honolulu Demin Upgrade	Total 70,920	Reliability	Steam Production	0.01776	1,260	
P0000644 K1 Kahe FWH 14 Replace	Total 808,608	Reliability	Steam Production	0.01776	14,361	
P0000690 W5 Annunciator Upgrade	Total 26,015	Reliability	Steam Production	0.01776	462	
P0000713 Dispatch Center Building	Total 3,696	Reliability	General	0.07219	267	
P0000715 Dispatch Boards	Total 16,963	Reliability	General	0.07219	1,225	
P0000717 EMS Replacement	Total 45,505	Reliability	General	0.07219	3,285	
P0000733 Trns Sub RTU Migration Pgm	Total 49,018	Reliability	Transmission	0.02943	1,443	
P0000764 H-1 Widening Waimalu Reloc	Total 142,571	Reliability	Distribution	0.04311	6,146	
P0000786 K1 Kahe 1 BW Sump Upgrade	Total 185,548	Reliability	Steam Production	0.01776	3,295	
P0000788 K2 Kahe 2 BW Sump Upgrade	Total 168,845	Reliability	Steam Production	0.01776	2,999	
P0000789 K3 Kahe 3 BW Sump Upgrade	Total 452,877	Reliability	Steam Production	0.01776	8,043	
P0000790 K4 Kahe 4 BW Sump Upgrade	Total 192,315	Reliability	Steam Production	0.01776	3,416	
P0000791 K5 Kahe 5 BW Sump Upgrade	Total 177,452	Reliability	Steam Production	0.01776	3,152	
P0000792 K6 Kahe 6 BW Sump Upgrade	Total 174,996	Reliability	Steam Production	0.01776	3,108	
P0000802 W5 Operator Console Upgrade	Total 363,768	Reliability	Steam Production	0.01776	6,461	
P0000807 H8 TSI Upgrade	Total 511,047	Reliability	Steam Production	0.01776	9,076	
P0000808 K3 Annunciator Replacement	Total 56,301	Reliability	Steam Production	0.01776	1,000	
P0000809 K6 Annunciator Replacement	Total (22,323)	Reliability	Steam Production	0.01776	(396)	
P0000813 K3&4 Control Room AC	Total 368,056	Reliability	Steam Production	0.01776	6,537	
P0000814 H8 Volt Reg/Exciter Replace	Total 1,287,597	Reliability	Steam Production	0.01776	22,868	
P0000815 H9 Volt Reg/Exciter Replace	Total 5,137	Reliability	Steam Production	0.01776	91	
P0000819 W8 Exciter/Regulator Replacement	Total 1,362,113	Reliability	Steam Production	0.01776	24,191	
P0000827 K3 DCS Balance of Plant I/O	Total 32,730	Reliability	Steam Production	0.01776	581	
P0000828 Outage Management System	Total 2,348	Reliability	General	0.07219	170	
P0000831 H8 Operator Console Upgrade	Total 567,368	Reliability	Steam Production	0.01776	10,076	
P0000834 46kV Fdrs to Mamala Sub	Total 785	Reliability	Transmission	0.02943	23	
P0000856 W7 Main Transformer	Total 2,276,079	Reliability	Steam Production	0.01776	40,423	
P0000857 W7 Aux Transformer	Total 1,350	Reliability	Steam Production	0.01776	24	
P0000858 H8 Annunciator Replacement	Total 823,262	Reliability	Steam Production	0.01776	14,621	
P0000895 H8 Main Xfmr Replacement	Total 1,638,973	Reliability	Steam Production	0.01776	29,108	
P0000939 W9 Walau CT Separation	Total 35,884	Reliability	Non-Steam Prod	0.01107	397	
P0000946 KoOlina SS Tsf#1 Install	Total 1,958,799	Reliability	Distribution	0.04311	84,444	
P0000947 KoOlina 46kV Lines	Total 3,023,140	Reliability	Transmission	0.02943	88,971	
P0000948 KoOlina 12kV lines	Total 24,789	Reliability	Distribution	0.04311	1,069	
P0000957 K1 MS Replacement	Total 30,826	Reliability	Steam Production	0.01776	547	
P0000983 W5 Waiau 5/6 Elevator Upgrd	Total 586	Reliability	Steam Production	0.01776	10	
P0001037 Puuloa Rd Widening - UG	Total 399,260	Reliability	Transmission	0.02943	11,750	
P0001064 W3 HSFD Fan Motor Replace	Total 172	Reliability	Steam Production	0.01776	3	
P0001108 Upper Kipapa Sound Lev Reduc	Total 147,769	Reliability	Distribution	0.04311	6,370	
P0001133 W8 Waiau FWH 83 Replace	Total 83,944	Reliability	Steam Production	0.01776	1,491	
P0001144 Helemano - Substation DG	Total 103,199	Reliability	Non-Steam Prod	0.01107	1,142	
P0001145 Ewa Nui - Substation DG	Total 38,124	Reliability	Non-Steam Prod	0.01107	422	
P0001146 Iwilei Tank Farm DG	Total 18,147	Reliability	Non-Steam Prod	0.01107	201	
P0001152 W0 Waiau Shft Supervisor Off	Total 20,654	Reliability	Steam Production	0.01776	367	
P0001155 150 Fee Aerial Platform Trk	Total 924,176	Reliability	General	0.07219	66,716	
P0001157 Honouliuli Reservoir 12kV Line	Total (657)	Reliability	Distribution	0.04311	(28)	
P0001158 Waiau-Koolau #1 Line Repl	Total 467	Reliability	Transmission	0.02943	14	
P0001161 W0 Waiau Solar FS Upgrade	Total 59,210	Reliability	Non-Steam Prod	0.01107	655	
P0001181 K3 Gen Protective Relay	Total 10,032	Reliability	Steam Production	0.01776	178	
P0001183 K5 Gen Protective Relay	Total 91,724	Reliability	Steam Production	0.01776	1,629	
P0001201 W5 Hydrogen Gas Dryer	Total 154,625	Reliability	Steam Production	0.01776	2,746	
P0001203 W7 Hydrogen Gas Dryer	Total 6,519	Reliability	Steam Production	0.01776	116	
P0001204 W8 Hydrogen Gas Dryer	Total 119,660	Reliability	Steam Production	0.01776	2,125	
P0001215 W5 Turbine Drains	Total 295,866	Reliability	Steam Production	0.01776	5,255	
P0001218 W8 Turbine Drains	Total 551,171	Reliability	Steam Production	0.01776	9,789	
P0001225 K3 FWH 31 Press/Temp Instr	Total 537	Reliability	Steam Production	0.01776	10	
P0001226 K3 FWH 32 Press/Temp Instr	Total 537	Reliability	Steam Production	0.01776	10	
P0001227 K3 FWH 33 Press/Temp Instr	Total 537	Reliability	Steam Production	0.01776	10	
P0001228 K3 FWH 35 Press/Temp Instr	Total 230	Reliability	Steam Production	0.01776	4	
P0001244 K3 Process Parameter Monitor	Total 14,196	Reliability	Steam Production	0.01776	252	
P0001250 W7 Process Parameter Monitor	Total 634	Reliability	Steam Production	0.01776	11	
P0001261 K3 Air Htr Rotor Stop Alarm	Total 76	Reliability	Steam Production	0.01776	1	
P0001266 W8 Air Htr Rotor Stop Alarm	Total 68,259	Reliability	Steam Production	0.01776	1,212	
P0001284 W8 Waiau FWH 84 Replace	Total 338	Reliability	Steam Production	0.01776	6	
P0001285 W6 Waiau FWH 64 Replace	Total 474,911	Reliability	Steam Production	0.01776	8,434	
P0001300 W8 Waiau FWH 85 Replace	Total 1,148,886	Reliability	Steam Production	0.01776	20,404	
P0001301 Kalaeloa Pole Yard DG	Total 354,855	Reliability	Non-Steam Prod	0.01107	3,928	
P0001304 Archer Sub Chiller change	Total 1,503,853	Reliability	Transmission	0.02943	44,258	
P0001314 St Lib V6422 Trayer Sw Repl	Total 20,291	Reliability	Distribution	0.04311	875	

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Depreciation for 2008 Additions

PROJECT DESCRIPTION	AMOUNT	CLASSIFICATION	Func Cat	Depr Rate	2009 Depr	Classification Depr Rate
P0001327 W5 UPS Panel Upgrade	Total 80,204	Reliability	Steam Production	0.01776	1,424	
P0001336 Camp Catlin Tsf Upgrade	Total 494	Reliability	Distribution	0.04311	21	
P0001339 Halawa Quarry Tsf Repl	Total 784	Reliability	Distribution	0.04311	34	
P0001357 Kapolei Pkwy Ext. OH to UG	Total 83,569	Reliability	Distribution	0.04311	3,603	
P0001364 Ewa Nui & Kamokila Ckt Rearr	Total 1,679,291	Reliability	Distribution	0.04311	72,394	
P0001380 Kullima Sub Access Road	Total 271,016	Reliability	Distribution	0.04311	11,684	
P0001382 W3 Waiau FWH 34 Replace	Total 179,942	Reliability	Distribution	0.04311	7,757	
P0001383 W5 Waiau 52 FWH Replace	Total 707,340	Reliability	Steam Production	0.01776	12,562	
P0001385 Fort St Mall-Campbell Ducts	Total 650	Reliability	Distribution	0.04311	28	
P0001391 K1 Opacity Monitor	Total 312,235	Reliability	Steam Production	0.01776	5,545	
P0001400 Ewa Nui-CIP Fiber Repl	Total 291,976	Reliability	General	0.07219	21,078	
P0001401 Spare 10% Tsf 2007 #1	Total 569,697	Reliability	Distribution	0.04311	24,560	
P0001411 Waiau 138KV Bkr 111 Replace	Total 734	Reliability	Transmission	0.02943	22	
P0001412 Kahe 138KV Bkr 169 Replace	Total 2,820	Reliability	Transmission	0.02943	83	
P0001421 School St #1 Swgr Repl	Total 557,376	Reliability	Transmission	0.02943	16,404	
P0001429 Lagoon #1 Tsf Replacement	Total 604,275	Reliability	Distribution	0.04311	26,050	
P0001475 H8/H9 Elevator Replacement	Total 359,923	Reliability	Steam Production	0.01776	6,392	
P0001478 Waiau 138KV Bkr 107&108 Repl	Total 493,093	Reliability	Transmission	0.02943	14,512	
P0001479 HPP 46kV Bkr 4552 Replace	Total 260,903	Reliability	Steam Production	0.01776	4,634	
P0001484 Makakilo Tsf #2 Replace	Total 744,835	Reliability	Distribution	0.04311	32,110	
P0001486 School St Relay Upgrd	Total 76,623	Reliability	Transmission	0.02943	2,255	
P0001487 Halawa 2 & 3 Tap	Total 227,680	Reliability	Transmission	0.02943	6,701	
P0001488 Kamoho Sub Sw Upgrd	Total 24,698	Reliability	Distribution	0.04311	1,065	
P0001501 HPP 46kV Bkr 4553 Replace	Total 277,855	Reliability	Steam Production	0.01776	4,935	
P0001516 Ilaniwal St 46 kV Cable Repic	Total 211,786	Reliability	Transmission	0.02943	6,233	
P0001526 H9 BFP 93 Motor Replacement	Total 3,229	Reliability	Steam Production	0.01776	57	
P0001529 Power Supply - Capital Tools	Total 493,071	Reliability	Steam Production	0.01776	8,757	
P0001530 W4 #41 Scrn Wash Pmp Replmnt	Total 477	Reliability	Steam Production	0.01776	8	
P0001531 W0 Startup Transformer	Total 516,579	Reliability	Steam Production	0.01776	9,174	
P0001537 2008 Spare 10MVA(10%) Tsf #1	Total 299,960	Reliability	Distribution	0.04311	12,931	
P0001550 Sys Spare 2008 80MVA Tsf #1	Total 510,855	Reliability	Transmission	0.02943	15,034	
P0001551 P28X Waiau-Mak #1 138kV 2412	Total 0	Reliability	Transmission	0.02943	0	
P0001557 Makakilo C&D Ph1 46kV UG	Total 443,530	Reliability	Transmission	0.02943	13,053	
P0001578 W6 BFP 61 Motor Replacement	Total 139,237	Reliability	Steam Production	0.01776	2,473	
P0001582 K6 BFP 61 Motor Replacement	Total 111,795	Reliability	Steam Production	0.01776	1,985	
P0001592 Kah Per 46kV Improv Nanakuli	Total 251,619	Reliability	Transmission	0.02943	7,405	
P0001596 Wah2 138kV Tsf Replacement	Total 267,575	Reliability	Transmission	0.02943	7,875	
P0001597 CEIP3 138kV Tsf Replacement	Total 417,014	Reliability	Transmission	0.02943	12,273	
P1370000 Distr R/W Purch (Blanket)	Total 3,594	Reliability	Land	0.00000	0	
P1373000 46kv R/W Purch (blanket)	Total 500	Reliability	Land	0.00000	0	
P1429000 PROG Misc Power Plant Adds	Total 1,296,084	Reliability	Steam Production	0.01776	23,018	
P1470000 Minor Trans Sub Addns	Total 1,232,690	Reliability	Transmission	0.02943	36,278	
P1480000 Minor Dist Sub Addns	Total 1,242,734	Reliability	Distribution	0.04311	53,574	
P1789000 Preventive OH Transf Repl	Total 41,824	Reliability	Distribution	0.04311	1,803	
P1793000 Preventive UG Transf Repl	Total 630,085	Reliability	Distribution	0.04311	27,163	
P1810000 Prev Misc Cable Failure Rpl	Total 553,356	Reliability	Distribution	0.04311	23,855	
P1870000 PROG Power Station Misc	Total 363,640	Reliability	Steam Production	0.01776	6,458	
P1990000 Minor T&D System Programs	Total 2,443,477	Reliability	Distribution	0.04311	105,338	
P3400000 Prev OH Dist Repl	Total 1,601,046	Reliability	Distribution	0.04311	69,021	
P3401000 Prev OH Subtrans Repl	Total 2,659,879	Reliability	Transmission	0.02943	78,280	
P3402000 Prev OH Trans Repl	Total 630,505	Reliability	Transmission	0.02943	18,556	
P8470000 Koolau/Tripler MWR Repl	Total 158,320	Reliability	General	0.07219	11,429	
P8820000 W4 Exciter Upgrade	Total 1,398	Reliability	Steam Production	0.01776	25	
P9454000 K4 Boiler Control Upgrade	Total 1,765	Reliability	Steam Production	0.01776	31	
P0001170 CIPO AQ Monitoring Stns	Total 811,896	Reliability	Non-Steam Prod	0.01107	8,988	
P0001340 CIP1 Unit Addition-Easements	Total 4,857,924	Reliability	Land	0.00000	0	
P0001585 CIP1 - Land - Gen Station	Total 1,261,761	Reliability	Land	0.00000	0	
P9539000 K3 Boiler Control Upgrade	Total 92,548	Reliability	Steam Production	0.01776	1,644	
P01309 Net Energy Metering	Total 67,984,882	Reliability Total			1,853,629	0.02727
P001699 ICONA AMI PILOT PROJECT	Total 69,229	Renewable Not Surcharge	Distribution	0.04311	2,984	
	Total 128,507	Renewable Not Surcharge	Distribution	0.04311	5,540	
	197,736	Renewable Not Surcharge Total			8,524	0.04311
	96,457,505	Grand Total			3,307,143	

Depreciation for 2009 Additions

Project #	Project Title	Func_Cat	2009	Classification	Classification	
					Depr Rate	2010 Depr
P1510000	Misc OH Svc & Extn (CID)	Distribution	1,200,539	Customer Add	0.04311	51,755
P1580000	Minor OH Dist Addn (CID)	Distribution	1,115,193	Customer Add	0.04311	48,076
P1670000	P&I&Test Meters & Mtr Eq	Distribution	894,126	Customer Add	0.04311	38,546
P1680000	Tsf & Equip Pur (CID)	Distribution	5,545,377	Customer Add	0.04311	239,061
P1700000	Misc UG Svc & Extn (CID)	Distribution	10,165,646	Customer Add	0.04311	438,241
P1820000	Minor UG Addns (CID)	Distribution	579,576	Customer Add	0.04311	24,986
			19,500,457	Customer Add Total		840,665
P0000839	Comm. Links FI-Makipa	Communication	196,030	Other	0.06263	12,277
P0001167	Waiau-Ewa Nui Fiber Optic Replace	Communication	1,566,474	Other	0.06263	98,108
P0001400	Ewa Nui-CIP Fiber Repl	Communication	4,180	Other	0.06263	262
P0001705	Wrd undgd security cabling	Communication	367,338	Other	0.06263	23,006
P1251000	Misc Tel Eqpt NT	Communication	10,936	Other	0.06263	685
P1500000	Misc CM Fac-Op & Ctrl (TD)	Communication	294,609	Other	0.06263	18,451
P1505000	Other Misc Comm Fac SOD	Communication	212,930	Other	0.06263	13,336
P9028000	Mobile Radio F1/F2 Replace	Communication	843,470	Other	0.06263	52,827
P0000500	Misc Office Furniture	Comp/Off/Furn/Tools	196,805	Other	0.06263	12,326
P0000501	Misc Office Equipment	Comp/Off/Furn/Tools	20,997	Other	0.06263	1,315
P0000571	CIS Replacement	Comp/Off/Furn/Tools	595,977	Other	0.06263	37,326
P0000652	Enterprise Computing	Comp/Off/Furn/Tools	13,670	Other	0.06263	856
P0000653	Collaborative Communications	Comp/Off/Furn/Tools	35,867	Other	0.06263	2,246
P0000692	CSD Technical Support Prgrm	Comp/Off/Furn/Tools	92,498	Other	0.06263	5,793
P0001010	HR Suite Phase 1	Comp/Off/Furn/Tools	164,040	Other	0.06263	10,274
	Ward Avenue Security					
P0001014	Enhancements	Comp/Off/Furn/Tools	63,000	Other	0.06263	3,946
P0001547	Ward ITS Generator Repl	Comp/Off/Furn/Tools	358,940	Other	0.06263	22,480
P0001565	EMESA Implementation	Comp/Off/Furn/Tools	10,472	Other	0.06263	656
P0001708	Environmental Lab Expansion	Comp/Off/Furn/Tools	194,837	Other	0.06263	12,203
P1081000	ED Capitalized Tools & Equip	Comp/Off/Furn/Tools	290,902	Other	0.06263	18,219
P1243000	PCs, Servers & Network	Comp/Off/Furn/Tools	1,421,680	Other	0.06263	89,040
P1244000	Copiers/Faxes/Printers	Comp/Off/Furn/Tools	43,744	Other	0.06263	2,740
P4150000	Monitoring Services	Comp/Off/Furn/Tools	46,574	Other	0.06263	2,917
P0000502	Waiau Minor Gen Addns	Structural	74,455	Other	0.06263	4,663
P0000503	Ward Ave Minor Addns	Structural	888,264	Other	0.06263	55,632
P0000504	King St Minor Addns	Structural	84,343	Other	0.06263	5,282
P0001287	Ward bldg 1/2 Atrium Roof	Structural	549,497	Other	0.06263	34,415
P0001422	New Ward MW Battery Rm	Structural	586,145	Other	0.06263	36,710
P1250000	Vehicle Purchases	Vehicles	3,150,760	Other	0.06263	197,332
			12,379,434	Other Total		775,324
P0001529	Power Supply - Capital Tools	Comp/Off/Furn/Tools	600,386	Reliability	0.06263	37,602
P0001350	Baseyards Priority 2 - 2009	Comp/Off/Furn/Tools	159,797	Reliability	0.06263	10,008
P0001354	MEVA Priority 1 - 2009	Comp/Off/Furn/Tools	108,566	Reliability	0.06263	6,799
P0001683	Waiau Security Enhancements	Comp/Off/Furn/Tools	17,237	Reliability	0.06263	1,080
P0001684	Ewa Nui Security Enhancement	Comp/Off/Furn/Tools	85,423	Reliability	0.06263	5,350
P0001685	Kahe Security Enhancements	Comp/Off/Furn/Tools	5,034	Reliability	0.06263	315
P0000120	Corr (Inc Emg) OH Trsf Rpl	Distribution	429,787	Reliability	0.04311	18,528
P0000121	Corr (Inc Emg) UG Trsf Rpl	Distribution	486,371	Reliability	0.04311	20,967
P0000122	Cor (Inc Emg) Mis Cable Rpl	Distribution	6,363,111	Reliability	0.04311	274,314
P0000123	Corr (Inc Emg) OH Dist Rpl	Distribution	2,788,210	Reliability	0.04311	120,200
P0000192	Waikiki Rehabilitation Project 3	Distribution	1,928,447	Reliability	0.04311	83,135
P0000335	Intl Savings & Loan Vault	Distribution	406,723	Reliability	0.04311	17,534
P0001081	Auahi Street 12kV OH to UG	Distribution	191,624	Reliability	0.04311	8,261
P0001100	Aina Haina Subd-Cable Ph3	Distribution	703,161	Reliability	0.04311	30,313
P0001121	Maunalani Hts Reliab Impvmts	Distribution	1,598,758	Reliability	0.04311	68,922
P0001314	St Lib V6422 Trayer Sw Rpl	Distribution	20,292	Reliability	0.04311	875
P0001315	Capitol Ctr V66008 Trayer Sw Rpl	Distribution	12,710	Reliability	0.04311	548
P0001316	Inn Prk V4322 Trayer Sw Rpl	Distribution	5,848	Reliability	0.04311	252
P0001318	Honestv V6193 Trayer Sw Rpl	Distribution	6,912	Reliability	0.04311	298
P0001358	Queens Medical Center Upgrd	Distribution	139,183	Reliability	0.04311	6,000
P0001404	Kal Hwy at Makapuu - 12kV UG	Distribution	265,563	Reliability	0.04311	11,448
P0001482	Mikilua Sub T&D Work	Distribution	326,173	Reliability	0.04311	14,061
P0001483	Mikilua Sub Tsf #3 Work	Distribution	1,798,033	Reliability	0.04311	77,513
P0001490	Ahuimanu PI OH & UG Cbl Upgr	Distribution	163,979	Reliability	0.04311	7,069
P0001520	Barbers Pt TF Tsf #2 Install	Distribution	1,601,724	Reliability	0.04311	69,050
P0001522	Barbers Pt TF 12kV Ckt	Distribution	395,457	Reliability	0.04311	17,048
P0001560	Waikamilo Tsf #2 Replace	Distribution	731,756	Reliability	0.04311	31,546
P0001561	Kamokila #4 12 kV Line Ext	Distribution	395,459	Reliability	0.04311	17,048
P0001563	Kamokila Tsf #3 Install	Distribution	1,839,542	Reliability	0.04311	79,303
P0001564	Kamokila SS Tsf #3 Circuiting	Distribution	704,106	Reliability	0.04311	30,354
P0001567	Airport Dist Feeders 2B & 3B	Distribution	1,458,836	Reliability	0.04311	62,890

Depreciation for 2009 Additions

<u>Project #</u>	<u>Project Title</u>	<u>Func Cat</u>	<u>2009</u>	<u>Classification</u>	<u>Depr Rate</u>	<u>2010 Depr</u>	<u>Classification</u>	<u>Depr Rate</u>
P0001568	Ocean Pointe Tsf 2 Circuits	Distribution	147,289	Reliability	0.04311	6,350		
P0001569	Ocean Pointe SS Tsf 2	Distribution	1,392,329	Reliability	0.04311	60,023		
P0001572	Bougainville Subd SV4613	Distribution	165,000	Reliability	0.04311	7,113		
P0001580	2008 Spare 8% Tsf #1	Distribution	677,029	Reliability	0.04311	29,187		
P0001591	2008 Spare 15KV Switchgear#1	Distribution	323,735	Reliability	0.04311	13,956		
P0001594	Allure Waikiki J2kV UG Reloc	Distribution	425,096	Reliability	0.04311	18,326		
P0001682	Kapolei IC, Ph1-12kV OH & UG	Distribution	394,572	Reliability	0.04311	17,010		
P0001686	Kapolei IC, Ph1-12kV OH Conv	Distribution	18,800	Reliability	0.04311	810		
P0001690	Ironwoods - 12kV OH to UG	Distribution	492,304	Reliability	0.04311	21,223		
P0001691	Waiaikamo Tsf #1 Replace	Distribution	802,287	Reliability	0.04311	34,587		
P0001710	Chevron Telecom	Distribution	631,922	Reliability	0.04311	27,242		
P0001711	Chevron Electrical Upgrade	Distribution	671,847	Reliability	0.04311	28,963		
P1480000	Minor Dist Sub Addns	Distribution	1,188,820	Reliability	0.04311	51,250		
P1789000	Preventive OH Transf Repl	Distribution	301,207	Reliability	0.04311	12,985		
P1793000	Preventive UG Transf Repl	Distribution	255,174	Reliability	0.04311	11,001		
P1810000	Prev Misc Cable Failure Rpl	Distribution	4,211,882	Reliability	0.04311	181,574		
P1990000	Minor T&D System Programs	Distribution	1,700,000	Reliability	0.04311	73,287		
P3400000	Prev OH Dist Repl	Distribution	3,116,786	Reliability	0.04311	134,365		
P0000062	Ce-Terminating Trust Esmnts	Land	56,573	Reliability	0.00000	0		
P0001109	Wahiawa 46Kv Ln-Schofield	Land	230,000	Reliability	0.00000	0		
P0001504	Kaloi Sub Land Transf	Land	2,296,439	Reliability	0.00000	0		
P1370000	Distr R/W Purch (Blanket)	Land	65,000	Reliability	0.00000	0		
P1373000	46kv R/W Purch (blanket)	Land	36,000	Reliability	0.00000	0		
P0001334	W10 Inlet Air Filtration	Non-Steam Production	1,660,248	Reliability	0.01119	18,578		
P0000056	H8 Blr Elec Warm Sys	Steam Production	1,042,211	Reliability	0.01723	17,957		
P0000086	W0 Waiau WV Oil Detectors	Steam Production	111,027	Reliability	0.01723	1,913		
P0000301	K1 Kahe FWH 12 Replace	Steam Production	746,546	Reliability	0.01723	12,863		
P0000484	W7 Waiau FWH 75 Replace	Steam Production	1,040,894	Reliability	0.01723	17,935		
P0000494	K1 Kahe FWH 11 Replace	Steam Production	739,253	Reliability	0.01723	12,737		
P0000620	K0 Kahe Fire Water Tank 2	Steam Production	1,292,072	Reliability	0.01723	22,262		
P0000632	K3 Exciter/Regulator Upgrade	Steam Production	1,946	Reliability	0.01723	34		
P0000635	K1 Elec Brkr Rm Ventilation	Steam Production	174,592	Reliability	0.01723	3,008		
P0000636	W0 Waiau Chlorine Dioxide	Steam Production	200	Reliability	0.01723	3		
P0000637	K0 Kahe Chlorine Dioxide	Steam Production	200	Reliability	0.01723	3		
P0000661	W0 W2 Maint Laydown Area	Steam Production	3,674	Reliability	0.01723	63		
P0000680	W0 Waiau Waste Oil Recover	Steam Production	404,398	Reliability	0.01723	6,968		
P0000787	K586 Lubr water pump	Steam Production	110,667	Reliability	0.01723	1,907		
P0000797	W3-W4 Svc Air Compr	Steam Production	372,914	Reliability	0.01723	6,425		
P0000798	W6 Instr Air Compr	Steam Production	128,404	Reliability	0.01723	2,212		
P0000799	K2 Operator Console Upgrade	Steam Production	430,935	Reliability	0.01723	7,425		
P0000809	K6 Annunciator Replacement	Steam Production	1,175,741	Reliability	0.01723	20,258		
P0000812	K5 Annunciator Replacement	Steam Production	5,250	Reliability	0.01723	90		
P0000827	K3 DCS Balance of Plant I/O	Steam Production	6,328	Reliability	0.01723	109		
P0000853	K2 Excitation System	Steam Production	1,460,511	Reliability	0.01723	25,165		
P0000854	K1 Excitation System	Steam Production	1,189,355	Reliability	0.01723	20,493		
P0000856	W7 Main Transformer	Steam Production	4,572	Reliability	0.01723	79		
P0000858	H8 Annunciator Replacement	Steam Production	11,918	Reliability	0.01723	205		
P0000861	K1 Annunciator Replacement	Steam Production	930,836	Reliability	0.01723	16,038		
P0000871	K1 Sootblower Controls	Steam Production	483,678	Reliability	0.01723	8,334		
P0000873	K2 Sootblower Controls	Steam Production	807,820	Reliability	0.01723	13,919		
P0000890	K5 Ignitor Atomization	Steam Production	575,194	Reliability	0.01723	9,911		
P0000956	W0 WWTF Chem Feed Upgrades	Steam Production	1,533,432	Reliability	0.01723	26,421		
P0000980	H8 Battery Bank Replacement	Steam Production	267,445	Reliability	0.01723	4,608		
P0000981	K5/6 Brkr Deck AC	Steam Production	461,847	Reliability	0.01723	7,958		
P0001131	H9 Honolulu FWH 94 Replace	Steam Production	825,655	Reliability	0.01723	14,226		
P0001132	K6 Kahe FWH 64 Replace	Steam Production	934,765	Reliability	0.01723	16,106		
P0001141	W3 Waiau 3 Blowoff Tank	Steam Production	196,053	Reliability	0.01723	3,378		
P0001142	W4 Waiau 4 Blowoff Tank	Steam Production	180,268	Reliability	0.01723	3,106		
P0001169	CIP0 Kahe RO Water Project	Steam Production	1,174,781	Reliability	0.01723	20,241		
P0001174	K2 BFP Automated Test	Steam Production	109,417	Reliability	0.01723	1,885		
P0001183	K5 Gen Protective Relay	Steam Production	6,703	Reliability	0.01723	115		
P0001197	K5 Hydrogen Gas Dryer	Steam Production	4,268	Reliability	0.01723	74		
P0001219	K1 FWH 11 Press/Temp Instr	Steam Production	87,514	Reliability	0.01723	1,508		
P0001220	K1 FWH 12 Press/Temp Instr	Steam Production	87,514	Reliability	0.01723	1,508		
P0001251	K3 Condensate Pump	Steam Production	331,079	Reliability	0.01723	5,704		
P0001252	K4 Condensate Pump	Steam Production	331,079	Reliability	0.01723	5,704		
P0001257	K0 Kahe Tank #11 Lvl Gauge	Steam Production	35,153	Reliability	0.01723	606		
P0001258	K0 Kahe Tank #12 Lvl Gauge	Steam Production	11,048	Reliability	0.01723	190		
P0001260	K0 Kahe Tank #14 Lvl Gauge	Steam Production	17,530	Reliability	0.01723	302		
P0001263	K5 Air Htr Rotor Stop Alarm	Steam Production	1,328	Reliability	0.01723	23		

Depreciation for 2009 Additions

Project #	Project Title	Func Cat	2009	Classification	Depr Rate	2010 Depr	Classification	Depr Rate
P0001324	K1 UPS Panel Upgrade	Steam Production	74,273	Reliability	0.01723	1,280		
P0001329	K6 UPS Panel Upgrade	Steam Production	73,932	Reliability	0.01723	1,274		
P0001332	K2 UPS Panel Upgrade	Steam Production	75,300	Reliability	0.01723	1,297		
P0001381	K5 Kahe FWH 53 Replace	Steam Production	773,913	Reliability	0.01723	13,335		
P0001392	W0 WWTF Filter Press	Steam Production	1,884,388	Reliability	0.01723	32,468		
P0001441	K2 FWH Turb. Wtr. Ind. Pvt.	Steam Production	901,600	Reliability	0.01723	15,535		
P0001442	K5/K6 Diesel Tank Expansion	Steam Production	250,487	Reliability	0.01723	4,316		
P0001444	K6 Seal Air Dmpr Drv Replace	Steam Production	147,749	Reliability	0.01723	2,546		
P0001473	K6 Voltage Regulator Upgrade	Steam Production	671,300	Reliability	0.01723	11,566		
P0001474	K5 Voltage Regulator Upgrade	Steam Production	668,863	Reliability	0.01723	11,525		
P0001531	W0 Startup Transformer	Steam Production	2,595	Reliability	0.01723	45		
P0001533	W8 SW/Fire Pump Replacement	Steam Production	162,065	Reliability	0.01723	2,792		
P0001534	BPT FO Tk131 FloorRenovation	Steam Production	4,165,481	Reliability	0.01723	71,771		
P0001536	W3&4 Phase Shift Transformer	Steam Production	227,400	Reliability	0.01723	3,918		
P0001538	K3 PCT Upgrade	Steam Production	350,521	Reliability	0.01723	6,039		
P0001573	K1 BFP 12 Motor Replacement	Steam Production	237,844	Reliability	0.01723	4,098		
P0001574	K2 Repl H2 Purity Meter	Steam Production	138,274	Reliability	0.01723	2,382		
P0001575	K1 Repl H2 Purity Meter	Steam Production	145,442	Reliability	0.01723	2,506		
P0001614	W5 CWP No. 52 Replacement	Steam Production	327,932	Reliability	0.01723	5,650		
P0001625	K3 Exciter Air Conditioning	Steam Production	139,555	Reliability	0.01723	2,405		
P0001639	K1 Service Water Strainer	Steam Production	91,211	Reliability	0.01723	1,572		
P0001640	K2 Service Water Strainer	Steam Production	93,817	Reliability	0.01723	1,616		
P0001687	K3 BFP 32 Motor Replacement	Steam Production	236,346	Reliability	0.01723	4,072		
P0001688	W5 BFP 51 Motor Replacment	Steam Production	240,414	Reliability	0.01723	4,142		
P0001689	Kahe Technical Trailer	Steam Production	446,250	Reliability	0.01723	7,689		
P1429000	PROG Misc Power Plant Adds	Steam Production	2,471,858	Reliability	0.01723	42,590		
P1870000	PROG Power Station Misc	Steam Production	392,830	Reliability	0.01723	6,768		
P9539000	K3 Boiler Control Upgrade	Steam Production	13,441	Reliability	0.01723	232		
P0000505	Other Minor Gen Plt Addns	Structural	170,325	Reliability	0.06263	10,667		
P0000124	Cor (Inc Emg) OH Subtrn Rpl	Transmission	508,369	Reliability	0.02943	14,961		
P0000125	Cor (Inc Emg) OH Trans Rpl	Transmission	0	Reliability	0.02943	0		
P0000733	Trns Sub RTU Migration Pgm	Transmission	435,866	Reliability	0.02943	12,828		
P0001415	Archer Breaker 6050 Repl	Transmission	588,577	Reliability	0.02943	17,322		
P0001499	Kahe 138kV Bkr 247 Replace	Transmission	105	Reliability	0.02943	3		
P0001500	Kahe 138kV Bkr 133 Replace	Transmission	327,148	Reliability	0.02943	9,628		
P0001503	Kahe 138 kV Bkr 172 Replace	Transmission	323,125	Reliability	0.02943	9,510		
P0001514	Airport Iwilei Shield Wire	Transmission	674,067	Reliability	0.02943	19,838		
P0001519	Mak-Airport 138kV SW Repl	Transmission	1,885	Reliability	0.02943	55		
P0001525	Tesoro Electrical Upgrade	Transmission	405,492	Reliability	0.02943	11,934		
P0001549	School-Iwilei 138kV SW Repl	Transmission	107,274	Reliability	0.02943	3,157		
P0001551	P28X Waiau-Mak #1 138kV 2412	Transmission	179,904	Reliability	0.02943	5,295		
P0001552	Kahe-Permanente 46kVNanakuli	Transmission	2,174,053	Reliability	0.02943	63,982		
P0001553	Halawa-Iwilei Shield Wire	Transmission	890,948	Reliability	0.02943	26,221		
P0001557	Makakilo C&D Ph1 46kV UG	Transmission	570,400	Reliability	0.02943	16,787		
P0001562	Archer Bkr Rupture Disk Inst	Transmission	876,500	Reliability	0.02943	25,795		
P0001592	Kah Pei 46kV Improv Nanakuli	Transmission	474,971	Reliability	0.02943	13,978		
P0001644	Waiau-Wahlawa SW OPGW	Transmission	2,653,759	Reliability	0.02943	78,100		
P0001681	Halawa-School OPGW	Transmission	1,246,101	Reliability	0.02943	36,673		
P1470000	Minor Trans Sub Addns	Transmission	909,411	Reliability	0.02943	26,764		
P1690000	Minor T&D Customer Programs	Transmission	426,000	Reliability	0.02943	12,537		
P3401000	Prev OH Subtrans Repl	Transmission	1,864,849	Reliability	0.02943	54,883		
P0001134	CIP1 Unit Addition-Fiber	Communication	531,769	Reliability	0.06263	33,305		
P0001136	CIP1 Unit Addition-Kahe Bkrs	Communication	1,720,778	Reliability	0.06263	107,772		
P0001137	CIP1 Unit Addition-Kalaeloa	Communication	289,912	Reliability	0.06263	18,157		
P4900000	CIP1 Unit 1 Addition	Non-Steam Production	143,809,745	Reliability	0.01119	1,609,231		
P0001050	CIP1 AES-CEIP#2 Trans. Line	Transmission	5,790,887	Reliability	0.02943	170,426		
P0001051	CIP1 AES Substation Add	Transmission	3,153,110	Reliability	0.02943	92,796		
P0001052	CIP1 CEIP Substation Mod	Transmission	3,890	Reliability	0.02943	114		
P3402000	Prev OH Trans Repl	Transmission	823,457	Reliability	0.02943	24,234		
			254,184,320	Reliability Total		5,010,829	0.01971	
P0001309	Net Energy Metering	Distribution	58,377	Renew not surch	0.04311	2,517		
P0001577	K3 Biofuel Co-Firing	Steam Production	2,211,814	Renew not surch	0.01723	38,110		
			2,270,191	Renew not surch Total		40,626	0.01790	
			288,334,402	Grand Total		6,667,444	0.02312	

Depreciation for 2010 Additions

<u>Project #</u>	<u>Project Title</u>	<u>Func. Cat</u>	<u>2010</u>	<u>Classification</u>	<u>Depr Rate</u>	<u>2011 Depr</u>	<u>Classification</u>	<u>Depr Rate</u>
P0001508	Kalo Telecomm	Communication	515,058	Customer Add	0.06263	32,258		
P0001498	Beckoning Point Substation	Distribution	2,837,065	Customer Add	0.04311	122,306		
P0001505	Kalo Substation	Distribution	6,679,172	Customer Add	0.04311	287,939		
P0001506	North South Road 46kV Line	Distribution	1,338,042	Customer Add	0.04311	57,683		
P0001507	Kalo Sub 46kV & 12kV Distr	Distribution	3,155,557	Customer Add	0.04311	136,036		
P0001554	Kalo Sub 12kV Work	Distribution	270,302	Customer Add	0.04311	11,653		
Minor OH Dist Addn (CID)		Distribution	782,028	Customer Add	0.04311	33,713		
Minor UG Addns (CID)		Distribution	383,840	Customer Add	0.04311	16,547		
Misc OH Svc & Extn (CID)		Distribution	1,024,434	Customer Add	0.04311	44,163		
Misc UG Svc & Extn (CID)		Distribution	7,283,822	Customer Add	0.04311	314,006		
P&I&Test Meters & Mtr Eq		Distribution	896,734	Customer Add	0.04311	38,658		
Tsf & Equip Pur (CID)		Distribution	4,055,551	Customer Add	0.04311	174,835		
P0001504	Kalo Sub Land Transf	Land	2,174,000	Customer Add	0.00000	0		
P0001390	Whitmore Sub & 46 kV Line	Transmission	5,504,162	Customer Add	0.02943	161,987		
P0001497	Beckoning Point 46kV Line Ex	Transmission	1,392,714	Customer Add	0.02943	40,988		
			38,292,481	Customer Add Total		1,472,772		0.03846
	Misc CM Fac-Op & Ctrl (TD)	Communication	152,309	Other	0.06263	9,539		
	Misc Tel Eqpt NT	Communication	11,053	Other	0.06263	692		
	Mobile Radio F1/F2 Replace	Communication	34,713	Other	0.06263	2,174		
	Other Misc Comm Fac SOD	Communication	89,187	Other	0.06263	5,586		
P0001147	Ellipse 6 Upgrade	Comp/Off/Furn/Tools	378,549	Other	0.06263	23,709		
P0001548	Meter Engr Shop Reloc	Comp/Off/Furn/Tools	352,598	Other	0.06263	22,083		
P0001558	Meter Read. Handheld Upgrade	Comp/Off/Furn/Tools	245,339	Other	0.06263	15,366		
	Collaborative Communications	Comp/Off/Furn/Tools	22,112	Other	0.06263	1,385		
	Copiers/Faxes/Printers	Comp/Off/Furn/Tools	44,212	Other	0.06263	2,769		
	CSD Technical Support Prgrm	Comp/Off/Furn/Tools	75,000	Other	0.06263	4,697		
	ED Capitalized Tools & Equip	Comp/Off/Furn/Tools	294,014	Other	0.06263	18,414		
	Enterprise Computing	Comp/Off/Furn/Tools	13,816	Other	0.06263	865		
	Misc Office Equipment	Comp/Off/Furn/Tools	21,222	Other	0.06263	1,329		
	Misc Office Furniture	Comp/Off/Furn/Tools	160,196	Other	0.06263	10,033		
	Monitoring Services	Comp/Off/Furn/Tools	0	Other	0.06263	0		
	PCs, Servers & Network	Comp/Off/Furn/Tools	77,371	Other	0.06263	4,846		
	Security CCTV System	Comp/Off/Furn/Tools	108,818	Other	0.06263	6,815		
P0000621	Waiau Admin Offices	General	0	Other	0.06263	0		
	King St Minor Addns	Structural	83,288	Other	0.06263	5,216		
	Waiau Minor Gen Addns	Structural	46,831	Other	0.06263	2,933		
	Ward Ave Minor Addns	Structural	191,775	Other	0.06263	12,011		
	Vehicle Purchases	Vehicles	3,234,826	Other	0.06263	202,597		
			5,637,229	Other Total		353,060		0.06263
	Power Supply - Capital Tools	Comp/Off/Furn/Tools	571,993	Reliability	0.06263	35,824		
P0000672	Kakaako Makai-Kewalo 25kV DL	Distribution	4,358,729	Reliability	0.04311	187,905		
P0001351	Baseyards Priority 2 - 2010	Comp/Off/Furn/Tools	81,012	Reliability	0.06263	5,074		
P0001355	MEVA Priority 1 - 2010	Comp/Off/Furn/Tools	79,481	Reliability	0.06263	4,978		
P0001121	Maunalani Hts Reliab Impvmts	Distribution	1,023,824	Reliability	0.04311	44,137		
P0001483	Mikilua Sub Tsf #3 Work	Distribution	5,304	Reliability	0.04311	229		
P0001502	North South Rd Ph1B UG Conv	Distribution	212,550	Reliability	0.04311	9,163		
P0001579	Kakaako Makai DOT Request	Distribution	4,250,601	Reliability	0.04311	183,243		
	Cor (Inc Emg) Mis Cable Rpl	Distribution	6,514,089	Reliability	0.04311	280,822		
	Corr (Inc Emg) OH Dist Rpl	Distribution	2,886,646	Reliability	0.04311	124,443		
	Corr (Inc Emg) OH Trsf Rpl	Distribution	445,424	Reliability	0.04311	19,202		
	Corr (Inc Emg) UG Trsf Rpl	Distribution	503,641	Reliability	0.04311	21,712		
	Minor Dist Sub Addns	Distribution	624,723	Reliability	0.04311	26,932		
	Minor T&D System Programs	Distribution	854,921	Reliability	0.04311	36,856		
	plug	Distribution	16,100,000	Reliability	0.04311	694,071		
	Prev Misc Cable Failure Rpl	Distribution	4,435,846	Reliability	0.04311	191,229		
	Prev OH Dist Repl	Distribution	3,236,162	Reliability	0.04311	139,511		
	Preventive OH Transf Repl	Distribution	312,243	Reliability	0.04311	13,461		
	Preventive UG Transf Repl	Distribution	264,148	Reliability	0.04311	11,387		
P0001282	Waiau-Steel Mill 46kv Line	Land	289,000	Reliability	0.00000	0		
P0001403	Wah 138KV Lines - Schofield	Land	63,287	Reliability	0.00000	0		
	46kv R/W Purch (blanket)	Land	36,000	Reliability	0.00000	0		
	Distr R/W Purch (Blanket)	Land	60,000	Reliability	0.00000	0		
P0001368	2010 Distribution Generation	Non-Steam Production	2,213,609	Reliability	0.01119	24,770		
P0001370	DOT Airport DSG	Non-Steam Production	4,354,759	Reliability	0.01119	48,730		
P0000225	W6 Air Preheater Rotor Rpl	Steam Production	909,135	Reliability	0.01723	15,664		
P0000316	W8 Air Htr Steam Coils	Steam Production	208,683	Reliability	0.01723	3,596		
P0000467	K3&4 Instr Air Compressors	Steam Production	134,802	Reliability	0.01723	2,323		
P0000635	K1 Elec Brkt Rm Ventilation	Steam Production	1,348	Reliability	0.01723	23		
P0000656	W3&4 CW Shl Pile Upgrade	Steam Production	766,119	Reliability	0.01723	13,200		
P0000677	W7&8 Underground Utilities	Steam Production	736,052	Reliability	0.01723	12,682		
P0000781	K4 Kahe FWH 41 Replacement	Steam Production	535,041	Reliability	0.01723	9,219		
P0000782	K4 Kahe FWH 42 Replacement	Steam Production	527,071	Reliability	0.01723	9,081		
P0000811	W8 Annunciator Replacement	Steam Production	795,148	Reliability	0.01723	13,700		
P0000817	W6 Exciter/Regulator Replace	Steam Production	1,047,279	Reliability	0.01723	18,045		
P0000854	K1 Excitation System	Steam Production	698	Reliability	0.01723	12		

Depreciation for 2010 Additions

<u>Project #</u>	<u>Project Title</u>	<u>Func. Cat</u>	<u>2010</u>	<u>Classification</u>	<u>Depr Rate</u>	<u>2011 Depr</u>	<u>Classification</u>	<u>Depr Rate</u>
P0000861	K1 Annunciator Replacement	Steam Production	4,091	Reliability	0.01723	70		
P0000869	K4 Annunciator Replacement	Steam Production	899,122	Reliability	0.01723	15,492		
P0000874	K4 Sootblower Controls	Steam Production	387,086	Reliability	0.01723	6,669		
P0000899	BPT Tank 132 Improvements	Steam Production	0	Reliability	0.01723	0		
P0000900	BPT Tank 133 Improvements	Steam Production	3,835,519	Reliability	0.01723	66,086		
P0000993	K0 Kahé WWT PLC Upgrade	Steam Production	111,503	Reliability	0.01723	1,921		
P0000995	K4 SSH Element Replacement	Steam Production	1,684,974	Reliability	0.01723	29,032		
P0001191	W9 Gen Protective Relay	Steam Production	73,608	Reliability	0.01723	1,268		
P0001202	W6 Hydrogen Gas Dryer	Steam Production	123,996	Reliability	0.01723	2,136		
P0001208	K4 Turbine Drains	Steam Production	289,370	Reliability	0.01723	4,986		
P0001216	W6 Turbine Drains	Steam Production	291,297	Reliability	0.01723	5,019		
P0001325	W8 UPS Panel Upgrade	Steam Production	75,149	Reliability	0.01723	1,295		
P0001328	W6 UPS Panel Upgrade	Steam Production	72,155	Reliability	0.01723	1,243		
P0001384	W6 Waiāu FWH 62 Replace	Steam Production	635,589	Reliability	0.01723	10,951		
P0001388	K0 Replace Kahé Tank #32	Steam Production	558,293	Reliability	0.01723	9,619		
P0001389	K0 Replace Kahé Tank #31	Steam Production	558,293	Reliability	0.01723	9,619		
P0001399	W8 Main Transformer Replace	Steam Production	2,384,244	Reliability	0.01723	41,081		
P0001408	K4 Opacity Monitor Reloc'n	Steam Production	309,323	Reliability	0.01723	5,330		
P0001432	W8 FWH Turb. Wr. Ind. Pvt.	Steam Production	629,474	Reliability	0.01723	10,846		
P0001438	W6 Main Condenser Refurb	Steam Production	1,585,776	Reliability	0.01723	27,323		
P0001455	W3 FWH 31 Instrumentation	Steam Production	0	Reliability	0.01723	0		
P0001456	W3 FWH 32 Instrumentation	Steam Production	0	Reliability	0.01723	0		
P0001457	W3 FWH 33 Instrumentation	Steam Production	0	Reliability	0.01723	0		
P0001458	W3 FWH 35 Instrumentation	Steam Production	0	Reliability	0.01723	0		
P0001467	W8 FWH 81 Instrumentation	Steam Production	81,703	Reliability	0.01723	1,408		
P0001468	W8 FWH 82 Instrumentation	Steam Production	76,110	Reliability	0.01723	1,311		
P7650000	W8 Controls Upgrade	Steam Production	4,402,585	Reliability	0.01723	75,857		
PROG Circ Wtr Temp Monitors	Steam Production	0	Reliability	0.01723	0			
PROG Misc Power Plant Adds	Steam Production	2,578,891	Reliability	0.01723	44,434			
PROG Power Station Misc	Steam Production	9,880,126	Reliability	0.01723	170,235			
Other Minor Gen Plt Adds	Structural	85,075	Reliability	0.06263	5,328			
P0000922	Kamoku 46kV UG Alt Phase 1	Transmission	57,124,913	Reliability	0.02943	1,681,186		
P0000974	Ala Wai Canal 46kV U Reloc	Transmission	2,562,718	Reliability	0.02943	75,421		
P0001361	Kapolei Business Park 138kV	Transmission	285,618	Reliability	0.02943	8,406		
P0001481	AES-CEIP #1 Relay Upgrade	Transmission	608,430	Reliability	0.02943	17,906		
P0001518	Spare 48/80mva Tsf #2	Transmission	2,548,900	Reliability	0.02943	75,014		
P0001524	Parallel Plan - Substation	Transmission	5,054,300	Reliability	0.02943	148,748		
Cor (Inc Emg) OH Substrn Rpl	Transmission	526,290	Reliability	0.02943	15,489			
Minor T&D Customer Programs	Transmission	368,235	Reliability	0.02943	10,837			
Minor Trans Sub Adds	Transmission	148,941	Reliability	0.02943	4,383			
Prev OH Subtrans Repl	Transmission	1,934,354	Reliability	0.02943	56,928			
Prev OH Trans Repl	Transmission	1,407,934	Reliability	0.02943	41,435			
P4900000	CIP1 Unit 1 Addition	Non-Steam Production	50,000	Reliability	0.01119	560		
Trms Sub RTU Migration Pgm	Transmission	511,291	Reliability	0.02943	15,047			
		164,184,644	Reliability Total		4,901,146	0.02985		
Net Energy Metering	Distribution	73,750	Renew not surch	0.04311	3,179			
		73,750	Renew not surch Total		3,179	0.04311		
P0001423	Meter Data Management System (MDMS)	Distribution	353,869	Renew surch	0.04311	15,255		
		353,869	Renew surch Total		15,255	0.04311		
		208,541,973	Grand Total		6,745,413	0.03235		

Depreciation for 2011 Additions

Project #	Project Title	Func_Cat	Proj_Type	2011	Classification	Classification		
						Depr Rate	2012 Depr	Depr Rate
P0001498	Beckoning Point Substation	Distribution	proj	4,971	Customer Add	0.04311	214	
	Minor OH Dist Addn (CID)	Distribution	pgm	1,416,639	Customer Add	0.04311	61,071	
	Minor UG Addns (CID)	Distribution	pgm	780,692	Customer Add	0.04311	33,656	
	Misc OH Svc & Extn (CID)	Distribution	pgm	1,594,836	Customer Add	0.04311	68,753	
	Misc UG Svc & Extn (CID)	Distribution	pgm	11,495,610	Customer Add	0.04311	495,576	
	P&I&Test Meters & Mtr Eq	Distribution	pgm	896,155	Customer Add	0.04311	38,633	
	Tsf & Equip Pur (CID)	Distribution	pgm	10,807,196	Customer Add	0.04311	465,898	
P0001497	Beckoning Point 46kV Line Ex	Transmission	proj	793	Customer Add	0.02943	23	
				26,996,892	Customer Add Total		1,163,825	0.043110
P0000992	Airport-Iwilei FO Replacemen	Communication	proj	527,204	Other	0.06263	33,019	
	Misc CM Fac-Op & Ctrl (TD)	Communication	pgm	94,027	Other	0.06263	5,889	
	Misc Tel Eqpt NT	Communication	pgm	11,053	Other	0.06263	692	
	Mobile Radio F1/F2 Replace	Communication	pgm	0	Other	0.06263	0	
	Other Misc Comm Fac SOD	Communication	pgm	42,828	Other	0.06263	2,682	
	Collaborative Communications	Comp/Off/Furn/Tools	pgm	22,112	Other	0.06263	1,385	
	Copiers/Faxes/Printers	Comp/Off/Furn/Tools	pgm	44,212	Other	0.06263	2,769	
	CSD Technical Support Prgrm	Comp/Off/Furn/Tools	pgm	75,000	Other	0.06263	4,697	
	ED Capitalized Tools & Equip	Comp/Off/Furn/Tools	pgm	244,820	Other	0.06263	15,333	
	Enterprise Computing	Comp/Off/Furn/Tools	pgm	0	Other	0.06263	0	
	Misc Office Equipment	Comp/Off/Furn/Tools	pgm	23,764	Other	0.06263	1,488	
	Misc Office Furniture	Comp/Off/Furn/Tools	pgm	141,250	Other	0.06263	8,846	
	Monitoring Services	Comp/Off/Furn/Tools	pgm	0	Other	0.06263	0	
	PCs, Servers & Network	Comp/Off/Furn/Tools	pgm	814,606	Other	0.06263	51,019	
	Security CCTV System	Comp/Off/Furn/Tools	pgm	109,167	Other	0.06263	6,837	
P0000287	W0 W182 Admn Bldg ReRoof	Structural	proj	541,239	Other	0.06263	33,898	
P0000543	Ward Fire Sprinkler Sys	Structural	proj	724,758	Other	0.06263	45,392	
	King St Minor Addns	Structural	pgm	177,176	Other	0.06263	11,097	
	Waiau Minor Gen Addns	Structural	pgm	63,676	Other	0.06263	3,988	
	Ward Ave Minor Addns	Structural	pgm	213,419	Other	0.06263	13,366	
	Vehicle Purchases	Vehicles	pgm	3,308,163	Other	0.06263	207,190	
				7,178,474	Other Total		449,588	0.062630
P0001351	Power Supply - Capital Tools	Comp/Off/Furn/Tools	pgm	447,647	Reliability	0.06263	28,036	
P0001355	Baseyards Priority 2 - 2010	Comp/Off/Furn/Tools	proj	87,866	Reliability	0.06263	5,503	
P0001434	MEVA Priority 1 - 2010	Comp/Off/Furn/Tools	proj	78,949	Reliability	0.06263	4,945	
P0000783	En Dlvy C&M Byard Impvmtis	Comp/Off/Furn/Tools	proj	102,567	Reliability	0.06263	6,424	
P0001098	Kakeako Makai-Iwilei 25KV DL	Distribution	proj	3,804,772	Reliability	0.04311	164,024	
	Aina Haina Subd-Cable Repl	Distribution	proj	3,617,640	Reliability	0.04311	155,956	
	Cor (Inc Emrg) Mis Cable Rpl	Distribution	pgm	6,667,315	Reliability	0.04311	287,428	
	Corr (Inc Emrg) OH Dist Rpl	Distribution	pgm	2,950,662	Reliability	0.04311	127,203	
	Corr (Inc Emrg) OH Trst Rpl	Distribution	pgm	454,525	Reliability	0.04311	19,595	
	Corr (Inc Emrg) UG Trsf Rpl	Distribution	pgm	514,410	Reliability	0.04311	22,176	
	Minor Dist Sub Addns	Distribution	pgm	507,152	Reliability	0.04311	21,883	
	Minor T&D System Programs	Distribution	pgm	720,024	Reliability	0.04311	31,040	
	plug	Distribution	pgm	(1,200,000)	Reliability	0.04311	-51,732	
	Prev Misc Cable Failure Rpl	Distribution	pgm	4,539,134	Reliability	0.04311	195,682	
	Prev OH Dist Repl	Distribution	pgm	3,320,629	Reliability	0.04311	143,152	
	Preventive OH Transf Repl	Distribution	pgm	317,946	Reliability	0.04311	13,707	
	Preventive UG Transf Repl	Distribution	pgm	269,809	Reliability	0.04311	11,631	
P0001282	Waiau-Steel Mill 46kv Line	Land	proj	289,000	Reliability	0.00000	0	
P0001403	Wah 138KV Lines - Schofield	Land	proj	415,000	Reliability	0.00000	0	
	46kv R/W Purch (blanket)	Land	pgm	36,000	Reliability	0.00000	0	
	Distr R/W Purch (Blanket)	Land	pgm	60,000	Reliability	0.00000	0	
P0001367	2011 Distribution Generation	Non-Steam Production	proj1	2,998,037	Reliability	0.01119	33,548	
P0000096	W7 Scootblower Ccls Upp	Steam Production	proj	654,975	Reliability	0.01723	11,285	
P0000210	W5 Cycle Chem Instr.	Steam Production	proj	330,566	Reliability	0.01723	5,696	
P0000217	H9 Cycle Chem Instr.	Steam Production	proj	280,207	Reliability	0.01723	4,828	
P0000224	W5 Air Preheater Rotor Rpl	Steam Production	proj	863,642	Reliability	0.01723	14,881	
P0000314	W7 APH Scootblower Upgrade	Steam Production	proj	173,437	Reliability	0.01723	2,988	
P0000315	W7 Air Htr Steam Coils	Steam Production	proj	216,579	Reliability	0.01723	3,732	
P0000450	K0 Kahe Mtr Part Wash End	Steam Production	proj	519,978	Reliability	0.01723	8,959	
P0000455	W5 and W6 Siding Upgrade	Steam Production	proj	285,817	Reliability	0.01723	4,925	
P0000471	K1 Kahe 1&2 Siding Replace	Steam Production	proj	243,764	Reliability	0.01723	4,200	
P0000472	K3 Kahe 3&4 Siding Replace	Steam Production	proj	245,724	Reliability	0.01723	4,234	
P0000473	W7&8 Siding Upgrade	Steam Production	proj	225,228	Reliability	0.01723	3,881	
P0000497	W0 Waiau WW Pond Closure	Steam Production	proj	384,527	Reliability	0.01723	6,625	
P0000616	K0 Kahe Parking Lot Addition	Steam Production	proj	473,535	Reliability	0.01723	8,159	
P0000631	K0 Kahe WWTF Sludge Drying	Steam Production	proj	1,088,037	Reliability	0.01723	18,747	
P0000665	W0 Waiau Parking Lot Add	Steam Production	proj	333,075	Reliability	0.01723	5,739	
P0000677	W7&8 Underground Utilities	Steam Production	proj	2,808	Reliability	0.01723	48	
P0000782	K4 Kahe FWH 42 Replacement	Steam Production	proj	3,552	Reliability	0.01723	61	
P0000805	K0 Kahe Intake Lighting	Steam Production	proj	158,415	Reliability	0.01723	2,729	
P0000810	W7 Annunciator Replacement	Steam Production	proj	1,082,271	Reliability	0.01723	18,648	
P0000811	W8 Annunciator Replacement	Steam Production	proj	9,808	Reliability	0.01723	169	
P0000816	W5 Exciter/Regulator Replace	Steam Production	proj	1,080,383	Reliability	0.01723	18,615	
P0000818	W7 Exciter/Regulator Repl	Steam Production	proj	1,104,342	Reliability	0.01723	19,028	
P0000859	H9 Annunciator Replacement	Steam Production	proj	536,466	Reliability	0.01723	9,243	

Depreciation for 2011 Additions

<u>Project #</u>	<u>Project Title</u>	<u>Func Cat</u>	<u>Proj Type</u>	<u>2011</u>	<u>Classification</u>	<u>Depr Rate</u>	<u>2012 Depr</u>	<u>Classification</u>	<u>Depr Rate</u>
P0000869	K4 Annunciator Replacement	Steam Production	proj	4,190	Reliability	0.01723	72		
P0000874	K4 Sootblower Controls	Steam Production	proj	5,877	Reliability	0.01723	101		
P0000876	H9 Sootblower Controls	Steam Production	proj	479,724	Reliability	0.01723	8,266		
P0000995	K4 SSH Element Replacement	Steam Production	proj	5,931	Reliability	0.01723	102		
P0001000	K0 Kahe Demin Water Tank #54	Steam Production	proj	595,367	Reliability	0.01723	10,258		
P0001013	K0 K1-6 Firewater Loop Rpl	Steam Production	proj	968,227	Reliability	0.01723	16,683		
P0001078	K0 Kahe Maint Shop Reroof	Steam Production	proj	151,515	Reliability	0.01723	2,611		
P0001086	K0 Kahe Admin Prk Str Reroof	Steam Production	proj	88,094	Reliability	0.01723	1,518		
P0001124	H9 Honolulu 9 Ignitor Repl	Steam Production	proj	293,255	Reliability	0.01723	5,053		
P0001212	H9 Turbine Drains	Steam Production	proj	168,880	Reliability	0.01723	2,910		
P0001217	W7 Turbine Drains	Steam Production	proj	353,790	Reliability	0.01723	6,096		
P0001254	W0 Waiau Tank #3 Lvl Gauge	Steam Production	proj	69,540	Reliability	0.01723	1,198		
P0001257	K0 Kahe Tank #11 Lvl Gauge	Steam Production	proj	37,285	Reliability	0.01723	642		
P0001258	K0 Kahe Tank #12 Lvl Gauge	Steam Production	proj	11,690	Reliability	0.01723	201		
P0001260	K0 Kahe Tank #14 Lvl Gauge	Steam Production	proj	18,574	Reliability	0.01723	320		
P0001330	H9 UPS Panel Upgrade	Steam Production	proj	81,621	Reliability	0.01723	1,406		
P0001408	K4 Opacity Monitor Relocatn	Steam Production	proj	2,967	Reliability	0.01723	51		
P0001418	W5 FWH Turb. Wtr. Ind. Pvt.	Steam Production	proj	450,526	Reliability	0.01723	7,763		
P0001419	W5 TSI Upgrade	Steam Production	proj	341,494	Reliability	0.01723	5,884		
P0001451	W5 FWH 51 Instrumentation	Steam Production	proj	83,021	Reliability	0.01723	1,430		
P0001452	W5 FWH 53 Instrumentation	Steam Production	proj	83,326	Reliability	0.01723	1,438		
P0001453	W5 FWH 54 Instrumentation	Steam Production	proj	84,399	Reliability	0.01723	1,454		
P0001454	W5 FWH 55 Instrumentation	Steam Production	proj	84,301	Reliability	0.01723	1,453		
P0001463	W7 FWH 71 Instrumentation	Steam Production	proj	77,666	Reliability	0.01723	1,338		
P0001464	W7 FWH 72 Instrumentation	Steam Production	proj	77,282	Reliability	0.01723	1,332		
P0001465	W7 FWH 73 Instrumentation	Steam Production	proj	77,282	Reliability	0.01723	1,332		
P0001466	W7 FWH 74 Instrumentation	Steam Production	proj	77,282	Reliability	0.01723	1,332		
P7590000	W7 Controls Upgrade	Steam Production	proj	4,264,808	Reliability	0.01723	73,483		
P7650000	W8 Controls Upgrade	Steam Production	proj	4,525	Reliability	0.01723	78		
P9107000	H9 Boiler Control System	Steam Production	proj	501,955	Reliability	0.01723	8,649		
P9486000	H9 Steam Atomizer Conv	Steam Production	proj	511,186	Reliability	0.01723	8,808		
	PROG Circ Wtr Temp Monitors	Steam Production	pgm	0	Reliability	0.01723	0		
	PROG Misc Power Plant Adds	Steam Production	pgm	2,666,788	Reliability	0.01723	45,949		
	PROG Power Station Misc	Steam Production	pgm	11,805,610	Reliability	0.01723	203,411		
	Other Minor Gen Plt Addns	Structural	pgm	99,602	Reliability	0.06263	6,238		
P0001090	Iwi-Sch 46kV Relay Upgrade	Transmission	proj	400,589	Reliability	0.02943	11,789		
P0001480	Kahe-Wah/Kahe-Hal #2 Str 27	Transmission	proj	776,165	Reliability	0.02943	22,843		
P0001511	Ewa Nui Ts! B Install	Transmission	proj	5,564,882	Reliability	0.02943	163,774		
	Cor (Inc Emg) OH Subtr Rpl	Transmission	pgm	538,344	Reliability	0.02943	15,843		
	Minor T&D Customer Programs	Transmission	pgm	373,643	Reliability	0.02943	10,996		
	Minor Trans Sub Addns	Transmission	pgm	70,082	Reliability	0.02943	2,063		
	Prev OH Subtrans Repl	Transmission	pgm	1,986,725	Reliability	0.02943	58,469		
	Prev OH Trans Repl	Transmission	pgm	889,267	Reliability	0.02943	25,583		
	Tms Sub RTU Migration Pgm	Transmission	pgm	259,392	Reliability	0.02943	7,634		
	Net Energy Metering	Distrbution	pgm	76,762,889	Reliability Total		2,145,451	0.027949	
				74,739	Renew not surch	0.04311	3,222		
				74,739	Renew not surch Total		3,222	0.043110	
P0001423	Meter Data Management System (MDMS)	Distribution	proj	214,857	Renew surch	0.04311	9,262		
P0001446	AMI - Meters	Distribution	proj	11,607,232	Renew surch	0.04311	500,388		
				11,822,089	Renew surch Total		509,650	0.043110	
				122,835,083	Grand Total		4,271,736	0.034776	

Depreciation for 2012 Additions

Project #	Project Title	Func Cat	Proj Type	2012	Classification	Depr Rate	Classification	
							2013 Depr	Depr Rate
	Minor OH Dist Addn (CID)	Distribution	pgm	1,593,866	Customer Add	0.04311	68,712	
	Minor UG Addns (CID)	Distribution	pgm	880,170	Customer Add	0.04311	37,944	
	Misc OH Svc & Extn (CID)	Distribution	pgm	1,791,698	Customer Add	0.04311	77,240	
	Misc UG Svc & Extn (CID)	Distribution	pgm	17,037,416	Customer Add	0.04311	734,483	
	P&I&Test Meters & Mtr Eq	Distribution	pgm	897,051	Customer Add	0.04311	38,672	
	Tsf & Equip Pur (CID)	Distribution	pgm	14,879,773	Customer Add	0.04311	641,467	
				37,079,974	Customer Add Total		1,598,518	0.04311
P0000732	Gen Cirl Unit WAN Upgrades	Communication	proj	355,259	Other	0.06263	22,250	
P0000734	RTU Wide Area Network	Communication	proj	718,292	Other	0.06263	44,861	
P0000991	Airport-Makalapa Fiber Repla	Communication	proj	257,142	Other	0.06263	16,105	
	Misc CM Fac-Op & Cirl (TD)	Communication	pgm	273,976	Other	0.06263	17,159	
	Misc Tel Eqpt NT	Communication	pgm	11,053	Other	0.06263	692	
	Mobile Radio F1/F2 Replace	Communication	pgm	0	Other	0.06263	0	
	Other Misc Comm Fac SOD	Communication	pgm	90,570	Other	0.06263	5,672	
P0001005	King St CCTV Cameras	Comp/Off/Furn/Tools	proj	126,525	Other	0.06263	7,924	
	Collaborative Communications	Comp/Off/Furn/Tools	pgm	22,112	Other	0.06263	1,385	
	Copiers/Faxes/Printers	Comp/Off/Furn/Tools	pgm	44,212	Other	0.06263	2,769	
	CSD Technical Support Prgm	Comp/Off/Furn/Tools	pgm	75,000	Other	0.06263	4,697	
	ED Capitalized Tools & Equip	Comp/Off/Furn/Tools	pgm	391,833	Other	0.06263	24,541	
	Enterprise Computing	Comp/Off/Furn/Tools	pgm	0	Other	0.06263	0	
	Misc Office Equipment	Comp/Off/Furn/Tools	pgm	23,764	Other	0.06263	1,488	
	Misc Office Furniture	Comp/Off/Furn/Tools	pgm	141,657	Other	0.06263	8,872	
	Monitoring Services	Comp/Off/Furn/Tools	pgm	0	Other	0.06263	0	
	PCs, Servers & Network	Comp/Off/Furn/Tools	pgm	2,228,285	Other	0.06263	139,557	
	Security CCTV System	Comp/Off/Furn/Tools	pgm	109,529	Other	0.06263	6,860	
P0000544	King St Fire Sprinkler Sys	Structural	proj	530,746	Other	0.06263	33,241	
	King St Minor Addns	Structural	pgm	175,294	Other	0.06263	10,979	
	Waiau Minor Gen Addns	Structural	pgm	64,021	Other	0.06263	4,010	
	Ward Ave Minor Addns	Structural	pgm	208,491	Other	0.06263	13,058	
	Vehicle Purchases	Vehicles	pgm	3,961,395	Other	0.06263	248,102	
P0000287	W0 W1&2 Admn Bldg ReRoof	Structural	proj	45,385	Other	0.06263	2,841	
				9,852,521	Other Total		617,063	0.06263
	Power Supply - Capital Tools	Comp/Off/Furn/Tools	pgm	447,647	Reliability	0.06263	28,036	
P0001351	Baseyards Priority 2 - 2010	Comp/Off/Furn/Tools	proj	120,142	Reliability	0.06263	7,524	
P0001355	MEVA Priority 1 - 2010	Comp/Off/Furn/Tools	proj	209,251	Reliability	0.06263	13,105	
P0000191	Waikiki Rehab Project 2	Distribution	proj	2,450,381	Reliability	0.04311	105,635	
	Cor (Inc Eng) Mis Cable Rpl	Distribution	pgm	6,823,698	Reliability	0.04311	294,170	
	Corr (Inc Eng) OH Dist Rpl	Distribution	pgm	3,015,350	Reliability	0.04311	129,992	
	Corr (Inc Eng) OH Trsf Rpl	Distribution	pgm	463,672	Reliability	0.04311	19,989	
	Corr (Inc Eng) UG Trsf Rpl	Distribution	pgm	525,315	Reliability	0.04311	22,646	
	Minor Dist Sub Addns	Distribution	pgm	809,304	Reliability	0.04311	34,889	
	Minor T&D System Programs	Distribution	pgm	735,249	Reliability	0.04311	31,697	
	plug	Distribution	pgm	(16,100,000)	Reliability	0.04311	(694,071)	
	Prev Misc Cable Failure Rpl	Distribution	pgm	4,643,874	Reliability	0.04311	200,197	
	Prev OH Dist Repl	Distribution	pgm	3,976,575	Reliability	0.04311	171,430	
	Preventive OH Transf Repl	Distribution	pgm	323,642	Reliability	0.04311	13,952	
	Preventive UG Transf Repl	Distribution	pgm	275,549	Reliability	0.04311	11,879	
	46kv R/W Purch (blanket)	Land	pgm	36,000	Reliability	0.00000	0	
	Dist R/W Purch (Blanket)	Land	pgm	60,000	Reliability	0.00000	0	
P0001335	W9 Inlet Air Filtration	Non-Steam Production	proj	1,803,294	Reliability	0.01119	20,179	
P0001512	2012 Distributed Generation	Non-Steam Production	proj	3,044,373	Reliability	0.01119	34,067	
P0000451	K0 Kahe Stormwater Berm	Steam Production	proj	784,007	Reliability	0.01723	13,164	
P0000453	W0 Waian Pond Sheetpiling	Steam Production	proj	1,089,268	Reliability	0.01723	18,768	
P0000468	K5&6 Instr Air Compressors	Steam Production	proj	204,830	Reliability	0.01723	3,529	
P0000631	K0 Kahe WWTF Sludge Drying	Steam Production	proj	91,196	Reliability	0.01723	1,571	
P0000810	W7 Annundicator Replacement	Steam Production	proj	2,833	Reliability	0.01723	49	
P0000817	W6 Exciter/Regulator Replace	Steam Production	proj	850	Reliability	0.01723	15	
P0000872	K3 Sootblower Controls	Steam Production	proj	411,157	Reliability	0.01723	7,084	
P0000899	BPT Tank 132 Improvements	Steam Production	proj	4,130,703	Reliability	0.01723	71,172	
P0000954	K2 BFP Rotating Elemt/Volute	Steam Production	proj	353,645	Reliability	0.01723	6,093	
P0000981	K5/6 Brkr Deck AC	Steam Production	proj	799,531	Reliability	0.01723	13,776	
P0000998	K5/6 auxiliary cooler vents	Steam Production	proj	94,949	Reliability	0.01723	1,636	
P0001086	K0 Kahe Admin Prk Str Reroot	Steam Production	proj	7,384	Reliability	0.01723	127	
P0001129	W3 MS Replacement	Steam Production	proj	1,668,356	Reliability	0.01723	28,746	
P0001207	K3 Turbine Drains	Steam Production	proj	299,098	Reliability	0.01723	5,153	
P0001209	K5 Turbine Drains	Steam Production	proj	297,043	Reliability	0.01723	5,118	
P0001219	K1 FWH 11 Press/Temp Instr	Steam Production	proj	82,455	Reliability	0.01723	1,421	
P0001220	K1 FWH 12 Press/Temp Instr	Steam Production	proj	85,503	Reliability	0.01723	1,473	
P0001223	K2 FWH 21 Press/Temp Instr	Steam Production	proj	85,677	Reliability	0.01723	1,476	
P0001224	K2 FWH 22 Press/Temp Instr	Steam Production	proj	85,677	Reliability	0.01723	1,476	
P0001232	K5 FWH 51 Press/Temp Instr	Steam Production	proj	78,867	Reliability	0.01723	1,359	
P0001233	K5 FWH 52 Press/Temp Instr	Steam Production	proj	78,867	Reliability	0.01723	1,359	
P0001234	K5 FWH 53 Press/Temp Instr	Steam Production	proj	78,867	Reliability	0.01723	1,359	
P0001235	K5 FWH 54 Press/Temp Instr	Steam Production	proj	78,867	Reliability	0.01723	1,359	
P0001236	K5 FWH 55 Press/Temp Instr	Steam Production	proj	78,867	Reliability	0.01723	1,359	
P0001237	K5 FWH 56 Press/Temp Instr	Steam Production	proj	64,852	Reliability	0.01723	1,117	
P0001246	K5 Process Parameter Monitor	Steam Production	proj	223,097	Reliability	0.01723	3,844	
P0001409	K3 Opacity Monitor Relocatn	Steam Production	proj	318,447	Reliability	0.01723	5,487	
P0001418	W5 FWH Turb. Wtr. Ind. Pvt.	Steam Production	proj	762	Reliability	0.01723	13	

Depreciation for 2012 Additions

Project #	Project Title	Func Cat	Proj_Type	2012	Classification		Depr Rate	2013 Depr	Classification	
									Depr Rate	
P0001440	K1-4 Backup SSWP	Steam Production	proj	475,368	Reliability		0.01723	8,191		
P0001447	W4 FWH 41 Instrumentation	Steam Production	proj	0	Reliability		0.01723	0		
P0001448	W4 FWH 42 Instrumentation	Steam Production	proj	0	Reliability		0.01723	0		
P0001449	W4 FWH 43 Instrumentation	Steam Production	proj	0	Reliability		0.01723	0		
P0001450	W4 FWH 45 Instrumentation	Steam Production	proj	0	Reliability		0.01723	0		
P0001489	K5 Turbine Controls Upgrade	Steam Production	proj	1,444,946	Reliability		0.01723	24,896		
P0001538	K3 PCT Upgrade	Steam Production	proj	412,720	Reliability		0.01723	7,111		
P7060000	K0 Kahe Disc Struct Reinf	Steam Production	proj	2,114,139	Reliability		0.01723	36,427		
P9486000	H9 Steam Atomizer Conv	Steam Production	proj	260	Reliability		0.01723	4		
	PROG Circ Wtr Temp Monitors	Steam Production	pgm	0	Reliability		0.01723	0		
	PROG Misc Power Plant Adds	Steam Production	pgm	2,767,742	Reliability		0.01723	47,688		
	PROG Power Station Misc	Steam Production	pgm	13,145,807	Reliability		0.01723	226,499		
P0000270	H&B Boiler Bldg. ReRoof	Structural	proj	60,950	Reliability		0.06263	3,817		
P0000271	K4 Stormwater Drain Impv	Structural	proj	802,221	Reliability		0.06263	50,243		
P0000273	K0 Kahe Strmwtr Erosion Ctrl	Structural	proj	474,904	Reliability		0.06263	29,743		
P0000286	H&B 9 Turbine Bldg ReRoof	Structural	proj	243,271	Reliability		0.06263	15,236		
P0000864	Other Minor Gen Plt Adds	Structural	pgm	100,099	Reliability		0.06263	6,269		
P0000864	Iwi 46 kV Sub Ctrl Hse Upgr	Transmission	proj	1,320,578	Reliability		0.02943	38,865		
P0000924	Kamokuh 46KV UG Alt Phase 2	Transmission	proj	16,470,073	Reliability		0.02943	484,714		
P0001088	Hon-Sch1 46KV Relay Upgrade	Transmission	proj	288,776	Reliability		0.02943	8,499		
P0001089	Hon-Sch2 46KV Relay Upgrade	Transmission	proj	285,638	Reliability		0.02943	8,406		
P0001494	Pukeko Tsf Replacement 1	Transmission	proj	4,926,603	Reliability		0.02943	144,990		
Cor (Inc Emg) OH Subtrn Rpl	(Cor (Inc Emg) OH Subtrn Rpl	Transmission	pgm	550,466	Reliability		0.02943	16,200		
	Minor T&D Customer Programs	Transmission	pgm	376,540	Reliability		0.02943	11,082		
	Minor Trans Sub Addsns	Transmission	pgm	296,939	Reliability		0.02943	8,739		
	Prev OH Subtrans Rept	Transmission	pgm	2,039,680	Reliability		0.02943	60,028		
	Prev OH Trans Repl	Transmission	pgm	887,277	Reliability		0.02943	26,113		
P0001523	Parallel Plant - CT	Non-Steam Production	proj1	107,654,926	Reliability		0.01119	1,204,659		
	Tms Sub RTU Migration Pgm	Transmission	pgm	384,565	Reliability		0.02943	11,318		
Net Energy Metering				182,743,239	Reliability Total			3,124,157		0.01710
		Distribution	pgm	75,759	Renew not surch		0.04311	3,266		
				75,759	Renew not surch Total			3,266		0.04311
P0001446	AMI - Meters	Distribution	proj	11,805,526	Renew surch		0.04311	508,936		0.04311
				11,805,526	Renew surch Total			508,936		0.04311
				241,557,019	Grand Total			5,851,940		0.02423

Depreciation for 2013 Additions

<u>Project #</u>	<u>Project Title</u>	<u>Func Cat</u>	<u>Proj Type</u>	<u>2013</u>	<u>Classification</u>	<u>Depr Rate</u>	<u>2014 Depr</u>	<u>Classification</u>	<u>Depr Rate</u>
	Minor OH Dist Addn (CID)	Distribution	pgm	1,614,188	Customer Add	0.04311	69,588		
	Minor UG Addns (CID)	Distribution	pgm	893,230	Customer Add	0.04311	38,507		
	Misc OH Svc & Extn (CID)	Distribution	pgm	1,816,089	Customer Add	0.04311	78,292		
	Misc UG Svc & Extn (CID)	Distribution	pgm	16,885,963	Customer Add	0.04311	727,954		
	P&I/Test Meters & Mtr Eq	Distribution	pgm	898,027	Customer Add	0.04311	38,714		
	Tst & Equip Pur (CID)	Distribution	pgm	15,251,068	Customer Add	0.04311	657,474		
				37,358,565	Customer Add Total		1,610,528		0 04311
	Misc CM Fac-Op & Ctrl (TD)	Communication	pgm	316,513	Other	0.06263	19,823		
	Misc Tel Eqpt NT	Communication	pgm	11,053	Other	0.06263	692		
	Mobile Radio	Communication	proj	35,000,000	Other	0.06263	2,192,050		
	Mobile Radio F1/F2 Replace	Communication	pgm	0	Other	0.06263	0		
P0001005	Other Misc Comm Fac SOD	Communication	pgm	130,289	Other	0.06263	8,160		
	King St CCTV Cameras	Comp/Off/Furn/Tools	proj	127	Other	0.06263	8		
	Collaborative Communications	Comp/Off/Furn/Tools	pgm	22,112	Other	0.06263	1,385		
	Copiers/Faxes/Printers	Comp/Off/Furn/Tools	pgm	44,212	Other	0.06263	2,769		
	CSD Technical Support Prgrm	Comp/Off/Furn/Tools	pgm	75,000	Other	0.06263	4,697		
	ED Capitalized Tools & Equip	Comp/Off/Furn/Tools	pgm	391,833	Other	0.06263	24,541		
	Enterprise Computing	Comp/Off/Furn/Tools	pgm	0	Other	0.06263	0		
	Misc Office Equipment	Comp/Off/Furn/Tools	pgm	23,764	Other	0.06263	1,488		
	Misc Office Furniture	Comp/Off/Furn/Tools	pgm	124,287	Other	0.06263	7,784		
	Monitoring Services	Comp/Off/Furn/Tools	pgm	0	Other	0.06263	0		
	PCs, Servers & Network	Comp/Off/Furn/Tools	pgm	1,392,678	Other	0.06263	87,223		
	Security CCTV System	Comp/Off/Furn/Tools	pgm	109,908	Other	0.06263	6,884		
P0000621	Waiau Admin Offices	General	proj	5,261,063	Other	0.06263	329,500		
P0000700	Fire sprinkler-whse hi-stora	Structural	proj	115,774	Other	0.06263	7,251		
P0001437	New Chem Lab	Structural	proj	3,510,764	Other	0.06263	219,879		
	King St Minor Addns	Structural	pgm	171,361	Other	0.06263	10,732		
	Waiau Minor Gen Addns	Structural	pgm	57,347	Other	0.06263	3,592		
	Ward Ave Minor Addns	Structural	pgm	184,048	Other	0.06263	11,527		
	Vehicle Purchases	Vehicles	pgm	2,629,509	Other	0.06263	164,686		
				49,571,642	Other Total		3,104,672		0.06263
P0001351	Power Supply - Capital Tools	Comp/Off/Furn/Tools	pgm	447,647	Reliability	0.06263	28,036		
P0001355	Baseyards Priority 2 - 2010	Comp/Off/Furn/Tools	proj	64	Reliability	0.06263	4		
P0001567	MEVA Priority 1 - 2010	Comp/Off/Furn/Tools	proj	67	Reliability	0.06263	4		
	Airport Dist Feeders 2B & 3B	Distribution	proj	1,539,604	Reliability	0.04311	66,372		
	Cor (Inc Emg) Mis Cable Rpl	Distribution	pgm	6,983,465	Reliability	0.04311	301,057		
	Corr (Inc Emg) OH Dis Rpl	Distribution	pgm	3,081,072	Reliability	0.04311	132,825		
	Corr (Inc Emg) OH Trsf Rpl	Distribution	pgm	64	Reliability	0.04311	3		
	Corr (Inc Emg) UG Trsf Rpl	Distribution	pgm	536,374	Reliability	0.04311	23,123		
	Minor Dist Sub Addns	Distribution	pgm	1,105,997	Reliability	0.04311	47,680		
	Minor T&D System Programs	Distribution	pgm	695,766	Reliability	0.04311	29,994		
	plug	Distribution	pgm	(1,127,000)	Reliability	0.04311	(48,585)		
	Prev Misc Cable Failure Rpl	Distribution	pgm	7,919,907	Reliability	0.04311	341,427		
	Prev OH Dist Rpl	Distribution	pgm	4,073,413	Reliability	0.04311	175,605		
	Preventive OH Transf Repl	Distribution	pgm	329,390	Reliability	0.04311	14,200		
	Preventive UG Transf Repl	Distribution	pgm	281,146	Reliability	0.04311	12,120		
	46kv R/W Purch (blanket)	Land	pgm	36,000	Reliability	0.00000	0		
	Distr R/W Purch (Blanket)	Land	pgm	60,000	Reliability	0.00000	0		
P0001540	2013 Distributed Generation	Non-Steam Production	proj	3,122,571	Reliability	0.01119	34,942		
P0000681	K1 Condenser Tube Replace	Steam Production	proj	5,554,590	Reliability	0.01723	95,706		
P0000875	H8 Sootblower Controls	Steam Production	proj	485,834	Reliability	0.01723	8,371		
P0000996	H8 SSH Element Replacement	Steam Production	proj	1,126,888	Reliability	0.01723	19,416		
P0001174	K2 BFP Automated Test	Steam Production	proj	87,067	Reliability	0.01723	1,500		
P0001177	W8 BFP Automated Test	Steam Production	proj	93,678	Reliability	0.01723	1,614		
P0001198	K6 Hydrogen Gas Dryer	Steam Production	proj	139,552	Reliability	0.01723	2,404		
P0001210	K6 Turbine Drains	Steam Production	proj	135,952	Reliability	0.01723	2,342		
P0001211	H8 Turbine Drains	Steam Production	proj	183,135	Reliability	0.01723	3,155		
P0001238	K6 FWH 61 Press/Temp Instr	Steam Production	proj	88,196	Reliability	0.01723	1,520		
P0001239	K6 FWH 62 Press/Temp Instr	Steam Production	proj	88,196	Reliability	0.01723	1,520		
P0001240	K6 FWH 63 Press/Temp Instr	Steam Production	proj	88,196	Reliability	0.01723	1,520		
P0001241	K6 FWH 65 Press/Temp Instr	Steam Production	proj	88,196	Reliability	0.01723	1,520		
P0001242	K6 FWH 66 Press/Temp Instr	Steam Production	proj	73,636	Reliability	0.01723	1,269		
P0001247	H8 Process Parameter Monitor	Steam Production	proj	303,111	Reliability	0.01723	5,223		
P0001248	H8 Process Parameter Monitor	Steam Production	proj	310,323	Reliability	0.01723	5,347		
P0001333	H8 UPS Panel Upgrade	Steam Production	proj	64,677	Reliability	0.01723	1,114		
P0001430	H8 UPS Upgrade	Steam Production	proj	193,695	Reliability	0.01723	3,337		
P0001431	H8 FWH Turb. Wtr. Ind. Pvt.	Steam Production	proj	681,322	Reliability	0.01723	11,739		
P0001459	W6 FWH 61 Instrumentation	Steam Production	proj	91,077	Reliability	0.01723	1,569		
P0001460	W6 FWH 63 Instrumentation	Steam Production	proj	91,077	Reliability	0.01723	1,569		
P0001461	W6 FWH 64 Instrumentation	Steam Production	proj	91,077	Reliability	0.01723	1,569		
P0001462	W6 FWH 65 Instrumentation	Steam Production	proj	90,457	Reliability	0.01723	1,559		
P0001470	K6 Turbine Controls Upgrade	Steam Production	proj	1,499,251	Reliability	0.01723	25,832		
P9537000	K4 Turbine Controls Upgrade	Steam Production	proj	1,388,793	Reliability	0.01723	23,929		
	PROG Circ Wtr Temp Monitors	Steam Production	pgm	0	Reliability	0.01723	0		
	PROG Misc Power Plant Adds	Steam Production	pgm	2,871,829	Reliability	0.01723	49,482		

Depreciation for 2013 Additions

<u>Project #</u>	<u>Project Title</u>	<u>Func. Cat</u>	<u>Proj Type</u>	<u>2013</u>	<u>Classification</u>	<u>Depr Rate</u>	<u>2014 Depr</u>	<u>Classification</u>	<u>Depr Rate</u>
	PROG Power Station Misc	Steam Production	pgm	28,082,600	Reliability	0.01723	483,863		
	Other Minor Gen Pit Addns	Structural	pgm	102,160	Reliability	0.06263	6,398		
	Cor (Inc Emg) OH Subtr Rpl	Transmission	pgm	562,913	Reliability	0.02943	16,567		
	Minor T&D Customer Programs	Transmission	pgm	420,180	Reliability	0.02943	12,368		
	Minor Trans Sub Addns	Transmission	pgm	423,552	Reliability	0.02943	12,465		
	Nanakuli UG	Transmission	proj	42,000,000	Reliability	0.02943	1,236,060		
	Prev OH Subtrans Repl	Transmission	pgm	2,094,712	Reliability	0.02943	61,647		
	Prev OH Trans Repl	Transmission	pgm	905,878	Reliability	0.02943	26,660		
	Trns Sub RTU Migration Pgm	Transmission	pgm	130,058	Reliability	0.02943	3,828		
				119,717,405	Reliability Total		3,292,787		0.02750
	Net Energy Metering	Distribution	pgm	76,356	Renew not surch	0.04311	3,292		
				76,356	Renew not surch Total		3,292		0.04311
P0001446	AMI - Meters	Distribution	proj	12,006,241	Renew surch	0.04311	517,589		
				12,006,241	Renew surch Total		517,589		0.04311
				218,730,209	Grand Total		8,528,868		0.03899

HELCO
Plant Addition Classification in Response to PUC-IR-52

	Recorded						Forecast				
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Reliability	15,614	104,228	34,604	19,504	18,222	22,438	118,145	44,240	31,153	14,846	34,739
Customer Addition	7,874	7,614	12,768	19,932	15,839	19,707	20,520	16,258	13,929	12,766	12,255
REIP/Renewable Recoverable	-	-	-	-	-	-	-	26	26	26	26
REIP/Renewable Non-recoverable	19	411	2,566	-	-	-	-	26	26	26	26
Other	3,592	18,549	5,805	8,357	4,110	3,954	8,148	5,250	6,130	4,182	3,950
Total	27,099	130,802	55,743	47,793	38,171	46,099	146,813	65,774	51,238	31,820	50,970

HELCO Plant Addition Methodology

Due to time constraints, the classifications were primarily judgmentally done by reviewing only the name/description of the project/program by Finance personnel. The information was not confirmed by operations departments, however, for the forecast, the operating departments (Engineering, Production & Distribution) provided classification for their respective projects/programs unto the Plant Addition report, which was used as a starting point to determine the classifications.

Note: The plant additions are gross and are not net of contributions (either cash or in kind). To the degree that contributions varied from year-to-year, the amounts in the attachment, especially for the customer additions category, may not be representative of the change in rate base for this category.

Hawaii Electric Light Company, Inc.
 2003 Plant Additions by categories

R=Reliability
 C=Customer Addition
 RS=REIP/Renewable Surcharge Recoverable
 RNS=Renewable not Surcharge Recoverable
 G=Other (General Plant)

H0000081	Bolton Subdivision (Lot-135)	21.61	C
H0000242	UH Hilo Utility Grid Ph 1B	88,827.53	C
H0000251	Keauhou View Estates S/D	(125,480.04)	C
H0000259	SSPP Unit #609 - Pauline	1.59	C
H0000399	SSPP Unit #663-Roberts	23,935.34	C
H0000400	SSPP Unit #622-Werba	51,649.46	C
H0000422	One Pauahi	-	C
H0000465	Kukio Bay Beach Club	(35,729.36)	C
H0000537	ALBERT WINGATE	22,312.25	C
H0000561	Keauhou View Est Unit 1 Ph5	(45,979.46)	C
H0000562	Keauhou Vw Est Unit 1 Ph 5&7	75,159.63	C
H0000567	Parker Ranch Center Ph.3	(43,653.70)	C
H0000591	Keauhou View Estates Turtle	7,669.15	C
H0000622	Mauna Lani Residential	16,418.00	C
H0000631	Waikoloa Colony Villas	179,650.15	C
H0000633	SSPP Unit-639 Olivera	1,111,375.29	C
H0000634	AT&T Reloc-Kanoe Pulsar	183.58	C
H0000636	AT&T Reloc-Kailua Pulsar	868.62	C
H0000639	AT&T Reloc-Anae Pulsar	409.81	C
H0000656	Mauna Kea Beach MOU	3,382.18	C
H0000733	Hualalai Links PS No. 3	31,580.90	C
H0000734	Jere Henderson Ph-3	68,405.33	C
H0000736	Hohoholo Ku @ Parker Ranch	60,683.46	C
H0000739	Kukio Beach 69KV Relocation	(882.90)	C
H0000740	Christopher Norrie	10,707.00	C
H0000742	SSPP UNIT #691-EA	524.73	C
H0000762	White Sands Beach	(77.81)	C
H0000764	Kula Kai Estates Subdivision	103,477.35	C
H0000765	Kaupulehu Potable Well No. 5	4,812.54	C
H0000766	UNIVERSITY PARKSIDE S/D	-	C
H0000767	Nanea Golf Course Clubhouse	15,238.48	C
H0000768	SSPP Unit #698-Kelly	25,584.06	C
H0000769	Alii Heights Unit 1 Ph 1 UG	245,072.59	C
H0000770	Alii Heights Unit 1 Ph 1 OH	61,717.14	C
H0000772	Verizon Wireless	161.35	C
H0000773	HUALALAI 413' RESERVOIR	15,238.48	C
H0000780	Kukio Bay Utility Relocation	33,331.24	C
H0000781	Kukio Bay Beach Road R	83,637.07	C
H0000783	Punaluu-Pahala 69KV Insul	126,909.25	C
H0000796	William Andrade	6,662.37	C
H0000797	UHH Tech Park Ph.4	106,229.00	C
H0000798	Gomes Family S/D	43,979.95	C
H0000799	Kamehameha School Ph.2B	170,704.86	C
H0000800	Papaaloa Acres Subdivision	33,994.73	C
H0000802	Kahakai Residential Dev	181,410.84	C
H0000805	Schuler Homes (Lualāi S/D)	72,727.24	C
H0000806	Kukio Bay Bch Club Well KI-2	44,386.36	C
H0000807	Kam School U.G. Service	71,210.91	C
H0000808	Hualalai Parcel 5 Ph 2A Sub	26,171.21	C
H0000809	Moana Technologies	25,117.97	C
H0000811	Hualalai Parcel 3 Ph 2 Subd	33,851.25	C
H0000815	SSPP Unit 728 - Pondela	6,105.80	C
H0000816	SH Kealakehe High School	15,015.00	C
H0000820	Pahoa Beach Est.-OH	39,857.76	C
H0000821	Lalamilo 11 - Inst Regulator	24,247.01	C
H0000823	NELHA Kau Pump Station S/D	36,648.86	C
H0000829	SSPP Unit #735-Noxon	24,963.02	C
H0000831	Pahoa Beach Est.-UG	17,115.72	C
H0000833	Waikoloa S/D - Lot-3	65,438.36	C
H0000834	Kukio Bay 620 Reservoir	21,843.47	C

Hawaii Electric Light Company, Inc.
 2003 Plant Additions by categories

H0000836 Steve Grossman	93,765.27	C
H0000837 SH-DOT-Ph.1-Traffic Signal	53,167.29	C
H0000839 Kolea Subdivision Ph.2	155,449.82	C
H0000842 Hualalai Village Relocation	89,045.76	C
H0000844 Gillaspie-Hargas Subdivision	26,743.42	C
H0000845 Kailua Emergency Generator	66,640.10	C
H0000851 Reggie Pare	25,326.33	C
H0000859 SSPP Unit 734 - Newman	21,259.59	C
H0000902 Douglas Deponte Subdivision	37,752.94	C
H0000921 Pamahoa S/D	47,955.42	C
H0000934 Doc Buyers - Overhead	59,438.19	C
H0000935 Big Island Land Co.	29,139.71	C
H0000940 SSPP 723 - BARBARA RUNYUN	8,097.74	C
H0000949 Alii Heights S/D Unit 1 Ph 3	78,243.97	C
H0000950 SSPP 700 - Lita Wright	15,179.81	C
H0000951 Alii Park Place	30,035.98	C
H0000953 Delbert Cambra	20,129.90	C
H0000956 HUALALAI PARCEL 7A S/D	26,333.76	C
H0000959 Adam Takaki - OH Line Ext	29,765.14	C
H0000960 SSPP Unit # 712-Lorenzo	6,629.32	C
H0000970 SSPP Unit #747-Eblacas	7,211.17	C
H0000972 Kona Sea Villas	33,534.77	C
H0000976 Nishihara S/D	22,706.33	C
H0000985 Alii Heights Unit 1 Ph 3 S/D	27,466.53	C
H0000987 Hualalai Village	130,144.03	C
H1000000 MINOR OH SERVICES	1,184,571.89	C
H1003000 MINOR UG SERVICES	1,252,129.02	C
H1007000 MINOR OTHER OH ADDITIONS	(1,217,504.88)	C
H1008000 MINOR OH EXTN BELOW 20001	1,686,563.12	C
H1013000 MINOR OH LINE CONVERSIONS	127,048.69	C
H1017000 MINOR UG EXTN BELOW 20001	413,697.46	C
H3501000 CHRISTOPHER NORRIE	934.66	C
H4750000 OTHER UG ADDITIONS	359.42	C
C Total	7,873,785.25	
H0000010 Battery Replacement	9,176.94	G
H0000059 Lalamilo Tools & Equip	951.29	G
H0000071 Install Storage & Pp Sys-Hill Plt	250.44	G
H0000176 Comm Site Air Conditioning	7,905.00	G
H0000181 Land PC Purchase	4,056.52	G
H0000188 Prod Dept PC Purchase	55,730.46	G
H0000198 Hawaii Pride E-Beam	20,654.14	G
H0000229 PC Tools	(231.21)	G
H0000273 HDC Laptop	26,545.21	G
H0000296 Engr CADD Wrkstation Hilo	21,749.93	G
H0000312 Digital Camera - HDH	4,209.63	G
H0000331 Heavy Trucks	238,961.75	G
H0000333 Cust Svcs Tools & Equip	41,748.64	G
H0000334 Cust Svcs Ofc Furniture	30,120.41	G
H0000335 Cust Svcs PC Purchase	29,743.58	G
H0000363 Kanelehua Baseyard Security Project	(21.88)	G
H0000394 HDW Computer Purchase	2,768.64	G
H0000410 Class Load Study 2001-2004	2,440.56	G
H0000418 Ceiling Replacement	6,540.11	G
H0000421 Replace Kona Base flooring	4,679.14	G
H0000462 HELCO Lan/Wan	3,058.14	G
H0000463 HELCO Win2000 upgrade	2,540.65	G
H0000532 AED Program - Equip Purchase	10,586.51	G
H0000548 MEDIUM TRUCKS	163,143.57	G
H0000549 SEDANS & LIGHT TRUCKS	837,765.66	G
H0000557 Material Racks for Stores	16,593.73	G
H0000575 Production Computer Upgrades	37,750.78	G
H0000624 Digital Voice Recorder	79,256.27	G
H0000628 Kaumana-Kanoe MW Link	43.88	G
H0000643 Waimea Baseyard Security Pro	207,621.44	G
H0000681 Infrared Camera for West HI	52,417.72	G
H0000685 Pave Waimea Baseyard	50,000.00	G

Hawaii Electric Light Company, Inc.
 2003 Plant Additions by categories

H0000743 Relay Test Trailer	5,430.11	G
H0000747 Prod Environ Storage/Sample	31,903.66	G
H0000786 Video Conferencing (pilot)	20,190.02	G
H0000788 Document Imaging System	58,833.30	G
H0000812 T&D Men's Bathroom Rennovate	8,897.28	G
H0000813 T&D Storage Shed	20,000.00	G
H0000828 Keahole Security Fence	17,675.49	G
H0000846 PCB 1 year Storage Area	32,706.81	G
H0000853 AMR - Turtle Meters & Eqpt	187,360.86	G
H0000857 Waimea EMD Roof/Rad Mod	49,757.33	G
H0000862 Puna Forklift	59,119.98	G
H0000864 Puna Fan Enclosures	37,649.65	G
H0000870 KOCC Battery Replacement	23,017.68	G
H0000880 Shipman Stack Camera	10,493.51	G
H0000927 Meter Test Set	28,869.49	G
H0000931 Pohaku St Security Gate	89,609.26	G
H0000938 Engineering Security Door	4,736.78	G
H0000965 Varcorders	18,695.55	G
H0000967 New Hilo Welding Shop	33,627.20	G
H0000977 Hill Plant Landscaping	55,301.62	G
H0000978 Kanoelehua Baseyard Drainage	62,036.21	G
H0000981 Tool Room Relighting	6,250.00	G
H0000986 HWK Printer/Copier/Scanner	26,728.00	G
H1019000 MISC ENVIRON & OSHA PROJECTS	63,214.58	G
H4800000 MINOR COMMUNICATIONS FAC	126,024.34	G
H4818000 Delta Mobile Radio	11,436.63	G
H4900000 MINOR GENERAL PLANT	47,537.29	G
H5001000 PROD DEPT TOOLS & EQUIP	64,662.68	G
H5002000 CUST SVC DEPT TOOLS & EQUIP	11,459.44	G
H5003000 ENGR DEPT TOOLS & EQUIP	4,695.91	G
H5004000 DISTR DEPT TOOLS & EQUIP	155,306.64	G
H5101000 CUST SVC DEPT OFFICE FURNIT	44,930.80	G
H5102000 ACCTG DEPT OFFICE FURNIT	6,873.23	G
H5103000 ENGR DEPT OFFICE FURNIT	(156.24)	G
H5104000 DISTR DEPT OFFICE FURNIT	2,858.80	G
H5105000 PROD DEPT OFFICE FURNIT	2,178.32	G
H5106000 ADMIN DEPT OFFICE FURNIT	8,829.64	G
H5125000 ACCTG DEPT PC PURCHASE	2,737.51	G
H5126000 ENGR DEPT PC PURCHASE	19,018.34	G
H5127000 DIST DEPT PC PURCHASE	73,107.99	G
H5129000 CUST SVC PC PURCHASE	81,783.07	G
H9186000 DAMAGE CLAIMS	7,824.21	G
G Total	3,591,970.62	
H0000186 Volcano Natl Park Conv	113,538.97	R
H0000255 Cascade Substrn Insp/Maint Sys	6,198.61	R
H0000258 CH Mohouli St. Extension	41,290.65	R
H0000307 Substation Clearance Upgrade	71,249.51	R
H0000308 SF6 Bushing Upgrade - HDC	-	R
H0000336 Mtr Rdg Device Repl	58,765.39	R
H0000385 SH Puainako/Kanoelehua	53,390.89	R
H0000477 Transmission Breaker Timer	39,273.53	R
H0000480 Relay Test Set (Substation)	74,766.88	R
H0000534 CH Puainako Kaumana-Komo	6,530.13	R
H0000570 H-6 Boiler Retubing	458,678.60	R
H0000572 Hill SPCC Compliance Project	263.28	R
H0000576 Puna Boiler Ash System	57,544.30	R
H0000579 Keahole Noise Abatement-Ph3	163,204.89	R
H0000580 Keahole Noise Abatement-Ph4	216,102.72	R
H0000588 RPL Kohala (3300)	29,327.23	R
H0000619 RPL Mill Rd, Silverton Camp	11,792.00	R
H0000630 KAPOHO DIST. IMP. PH-3	2,240.93	R
H0000635 Ouli Disperse Generator	79,634.13	R
H0000642 Huehue-Anaeoomalu MW Link	43.88	R
H0000645 Honokaa SubSta Fdr Ckt 15	83,395.76	R
H0000653 Kealia 6602 Bkr Replacement	45,877.67	R
H0000659 AGC Modifications/Upgrade	47,287.60	R

Hawaii Electric Light Company, Inc.
2003 Plant Additions by categories

H0000707	Pipeline PIG Upgrade	493,287.93	R
H0000711	Puna Turbine Brg Sprinklers	37,983.25	R
H0000712	Puna Burner Front Sprinklers	37,986.00	R
H0000713	Puna F/O Station Barrier	23,817.75	R
H0000716	Puna Static Exciter Upgrade	124,992.08	R
H0000723	Host-Keahole Airport 12KV	87,365.89	R
H0000748	Hill Burner Sprinkler System	189,106.26	R
H0000749	Kan D-15 Controls	117,088.83	R
H0000750	Kan D-16 Controls Upgrade	112,496.29	R
H0000751	Kan D-17 Controls Upgrade	111,159.62	R
H0000752	Wma D-12 Controls Upgrade	112,467.37	R
H0000753	Wma D-13 Controls	109,703.15	R
H0000754	Wma D-14 Controls	109,721.59	R
H0000755	Kan D-11 Controls	143,207.95	R
H0000756	Kan-Roof/Radiator Out Upgrd	322,081.39	R
H0000757	Hill Used Waste Water Tanks	223,258.53	R
H0000761	S. Kopua Rd Widening Project	1,049.46	R
H0000771	RPR-CKT 1201 UG REPL	57,179.02	R
H0000785	H-5 Waterwall Replacement	429,520.04	R
H0000804	RPR Hilo 6400 Line	148,997.80	R
H0000818	Anae 8102 Bkr Replacement	49,237.36	R
H0000819	Shipman 12 Regulators Inst	117,027.31	R
H0000822	RPL Kohala Mtn. Rd	93,070.89	R
H0000825	Puna Turbine Vibration Mon	153,375.44	R
H0000826	Puna Annunciator Upgrade	413,387.17	R
H0000840	Hill Plant 480V Upgrade	329,690.60	R
H0000854	Kapoho Beach Lot Rpl	138,626.38	R
H0000856	Puna CT3 E-Cell	207,675.55	R
H0000860	Hill Waste Water Improvement	32,897.86	R
H0000861	H5 & H6 Delta V Separation	14,421.47	R
H0000865	Ship ID/FD Damper Actuators	66,941.04	R
H0000866	Hill Plant Fire Sys Improve	15,007.96	R
H0000868	Hill Plant Fuel Add Platform	35,555.92	R
H0000871	Shipman 4 Feedwater Heater	49,233.94	R
H0000872	Shipman Fire Protection	50,400.96	R
H0000873	Shipman 12' Stack Extension	47,630.26	R
H0000876	Shipman Air Dryer	10,365.93	R
H0000877	Shipman ID/FD Fan Wheels	141,059.50	R
H0000881	Ship 13.87KV Switchgear/Batt	496,491.73	R
H0000882	Shipman 3 MCC Replacement	324,835.39	R
H0000883	Shipman 3 480v Switchgear	160,351.67	R
H0000884	Shipman 4 480V Switchgear	247,666.35	R
H0000885	Shipman 4 MCC Replacement	280,657.68	R
H0000890	Keahole D-22 Governor	114,130.13	R
H0000891	Keahole D-21 Governor	118,244.38	R
H0000892	Kea D-23 Controls Upgrade	123,764.70	R
H0000895	Hill Plant Back-Flow Prevent	37,653.00	R
H0000897	DLP Repl-Kahaluu	37,222.15	R
H0000898	DLP Repl-Kailua	30,281.16	R
H0000899	DLP Repl-Kealia	14,298.56	R
H0000900	DLP Repl-Poopoomino	21,916.66	R
H0000901	DLP Repl-Keahole	53,652.47	R
H0000903	DLP Repl-Waimea	30,461.62	R
H0000904	DLP Repl-Mauna Lani	19,234.91	R
H0000905	DLP Repl-Ouli	23,539.88	R
H0000906	DLP Repl-Anaehoomalu	29,691.02	R
H0000907	DLP Repl-Keamuku	57,659.42	R
H0000908	DLP Repl-Honokaa	16,941.51	R
H0000909	DLP Repl-Wailuku	18,989.04	R
H0000910	DLP Repl-Puueo	13,210.43	R
H0000911	DLP Repl-Pepeekeo	28,972.58	R
H0000912	DLP Repl-Kaumana	55,226.26	R
H0000913	DLP Repl-Kanoelhua	22,021.24	R
H0000914	DLP Repl-Puna	24,051.76	R
H0000915	Kanoelhua Sandblast Facilit	149,086.14	R
H0000918	PUUHONUA S/D PH II INC 1A'	19,679.45	R

Hawaii Electric Light Company, Inc.
2003 Plant Additions by categories

H0000922 Keahole 7903 Bkr Replacement	53,070.48	R
H0000937 RPR-CKT 1400 UG REPL	51,776.07	R
H0000939 US KALOKO-HONOKOHAU NHP	40,020.34	R
H0000966 SH DOT Ph. II Traffic Signal	194,784.53	R
H1001000 PURCHASE NEW KWH METERS	502,675.05	R
H1002000 PURCH TSF AND RELATED EQ	2,764,267.23	R
H1006000 POLE LINE REPL & RELOC	2,847,449.71	R
H1009000 MINOR R/W SURVEY	17,890.00	R
H1010000 POWER PLANT ADDITIONS	2,506.57	R
H1011000 MINOR TRANS SUB ADDITIONS	253.99	R
H1012000 UNIT SUBSTATION PURCHASE	368,226.99	R
H1014000 MINOR TRANS LINE ADDITIONS	4,257.24	R
H1015000 MINOR CABLE REPLACEMENT	112,555.85	R
H1016000 MINOR DISTR SUB ADD	13,411.51	R
H1020000 POWER STATION ADDITIONS	251,660.99	R
H3111000 FIRE PROTECTION SYSTEM CT5	(4,316.48)	R
H3115000 WAREHOUSE/SHOP CT5	(10,794.58)	R
H3191000 CT4 WATER TREATMENT SYSTEM	(793,896.35)	R
H3194000 CT5 WATER TREATMENT SYSTEM	(45,978.65)	R
H3406000 RECLOSER UPGRADES	3,756.35	R
H3422000 SUBSTN BATTERY BANK REPL	38,956.22	R
H3973000 Haihai Conversion	12,847.32	R
R Total	15,613,784.96	
H0000574 Kona Engr NEM PV Project	1,031.92	RNS
H0000763 Offgrid PV Lights	17,477.40	RNS
RNS Total	18,509.32	
Total	27,098,050.15	

Hawaii Electric Light Company, Inc.
 2004 Plant Additions by categories

R=Reliability

C=Customer Addition

RS=REIP/Renewable Surcharge Recoverable

RNS=Renewable not Surcharge Recoverable

G=Other (General Plant)

H0000215 H0000215 SSPP Unit 589 - Phyllis Hanson	C	390.46
H0000219 H0000219 Hiromu Yamanaka	C	208.80
H0000251 H0000251 Keauhou View Estates S/D	C	5.88
H0000265 H0000265 James Cardin Subdivision	C	0.16
H0000428 H0000428 SSPP Unit 657 - Vanoven	C	3,646.30
H0000429 H0000429 Kam School Pole Relocs	C	-
H0000654 H0000654 Mauna Kea Agribusiness Co.	C	640.92
H0000665 H0000665 SSPP UNIT 676 - ECHIELAM	C	158.74
H0000811 H0000811 Hualalai Parcel 3 Ph 2 Subd	C	2,428.50
H0000815 H0000815 SSPP Unit 728 - Pondela	C	4,797.59
H0000829 H0000829 SSPP Unit #735-Noxon	C	-
H0000836 H0000836 Steve Grossman	C	2,110.01
H0000842 H0000842 Hualalai Village Relocation	C	2,821.92
H0000934 H0000934 Doc Buyers - Overhead	C	6,385.21
H0000940 H0000940 SSPP 723 - BARBARA RUNYUN	C	38.75
H0000949 H0000949 Alii Heights S/D Unit 1 Ph 3	C	(633.31)
H0000955 H0000955 Mauna Lani Res II	C	6,560.43
H0000960 H0000960 SSPP Unit # 712-Lorenzo	C	3,342.68
H0000961 H0000961 SH DHHL Punahele/Rd B	C	36,389.30
H0000963 H0000963 SSPP Unit #716-Catrett	C	8,178.63
H0000966 H0000966 SH DOT Ph. II Traffic Signal	C	341.40
H0000970 H0000970 SSPP Unit #747 - Eblacas	C	118.49
H0000972 H0000972 Kona Sea Villas	C	-
H0000974 H0000974 Benioff Residence Lot E-2-A	C	35,045.72
H0000979 H0000979 RPL Kenji Shiba	C	71,900.54
H0000980 H0000980 Elizabeth Marshall S/D	C	29,222.46
H0000985 H0000985 Alii Heights Unit 1 Ph 3 S/D	C	460.95
H0000987 H0000987 Hualalai Village	C	(53.31)
H0001008 H0001008 Bladen-SSPP Unit #730	C	20,529.13
H0001010 H0001010 Thurber-SSPP Unit #761	C	13,481.82
H0001011 H0001011 Pualani Est Ph 1 OH Distr	C	342,517.37
H0001013 H0001013 Continental Pacific #2	C	123,414.53
H0001014 H0001014 Makalei Plantation well	C	17,208.70
H0001017 H0001017 SSPP UNIT #736-NUTT	C	47,708.10
H0001020 H0001020 McMahel-SSPP Unit #750	C	23,255.55
H0001025 H0001025 Voicestream-SSPP Unit #752	C	36,766.37
H0001026 H0001026 Knoblich-SSPP Unit #740	C	22,263.06
H0001027 H0001027 Roger Meeker S/D	C	20,537.01
H0001028 H0001028 Keahole View S/D Inc II	C	16,196.06
H0001041 H0001041 Robert Cardwell	C	35,466.99
H0001042 H0001042 SH DHHL Pala Lane	C	24,267.78
H0001043 H0001043 SH DHHL Uhaloa/Lawai	C	38,258.02
H0001053 H0001053 Bayview Estates S/D Phase 3	C	83,045.93
H0001055 H0001055 Pahoa Marketplace	C	87,562.85
H0001056 H0001056 Kaupulehu Land LLC	C	16,552.44
H0001057 H0001057 18th Fairway Villas	C	30,887.57
H0001059 H0001059 SSPP 756 - GEORGE BERDON	C	17,558.26
H0001060 H0001060 Pualani Estates Sbdn UG Dist	C	248,907.38
H0001064 H0001064 SSPP Unit #719-Burns	C	28,165.72
H0001065 H0001065 Laupahoehoe Seaciff	C	40,768.20
H0001068 H0001068 SSPP 762 - JIM HALL	C	16,265.14
H0001078 H0001078 SH DHHL-KILUA ST.	C	17,313.45
H0001079 H0001079 Makana Aloha Plantation	C	22,929.64
H0001081 H0001081 Keauhou Heights S/D	C	33,888.22
H0001083 H0001083 Estate Villas At Hainoa	C	14,502.42

Hawaii Electric Light Company, Inc.
 2004 Plant Additions by categories

H0001085	H0001085 Kupulau Meadows S/D	C	22,409.93
H0001086	H0001086 Estes-SSPP Unit #771	C	13,573.62
H0001087	H0001087 SSPP Unit 785 - Gerke	C	10,066.39
H0001088	H0001088 Rapoza-SSPP Unit #768	C	15,867.38
H0001091	H0001091 Roark Borum	C	34,490.07
H0001092	H0001092 SSPP Unit 761 - Fix	C	24,927.37
H0001094	H0001094 Kukio Bay Beach Club	C	35,781.56
H0001095	H0001095 Puukohola Heiau NHS Imp	C	76,014.60
H0001096	H0001096 SSPP 763 - Jim Southard	C	31,704.42
H0001114	H0001114 SSPP Unit #787-Carson	C	50,153.97
H0001124	H0001124 SSPP Unit #775-Perriera	C	15,388.96
H0001130	H0001130 Parker Rch Truck Park	C	28,283.08
H1000000	H1000000 MINOR OH SERVICES	C	1,329,512.40
H1003000	H1003000 MINOR UG SERVICES	C	1,176,466.28
H1007000	H1007000 MINOR OTHER OH ADDITIONS	C	(707,791.01)
H1008000	H1008000 MINOR OH EXTN BELOW 20001	C	2,795,243.09
H1013000	H1013000 MINOR OH LINE CONVERSIONS	C	2,071.70
H1017000	H1017000 MINOR UG EXTN BELOW 20001	C	996,751.67
	H3501000 CHRISTOPHER NORRIE	C	146.15
	H4750000 OTHER UG ADDITIONS	C	7,830.55
C Total			7,613,617.11
H0000010	H0000010 Battery Replacement	G	21,386.13
H0000071	H0000071 Install Storage & Pp Sys-Hill Plt	G	373.81
H0000176	H0000176 Comm Site Air Conditioning	G	4,625.32
H0000188	H0000188 Prod Dept PC Purchase	G	1,205.86
H0000295	H0000295 Engr CADD Wrkstation Kona	G	18,435.85
H0000296	H0000296 Engr CADD Wrkstation Hilo	G	11,061.50
H0000333	H0000333 Cust Svcs Tools & Equip	G	6,921.96
H0000334	H0000334 Cust Svcs Ofc Furniture	G	511.20
H0000335	H0000335 Cust Svcs PC Purchase	G	9,941.76
H0000410	H0000410 Class Load Study 2001-2004	G	240,118.57
H0000413	H0000413 Kea Warehouse/Shop Bldg-PSD	G	2,288,332.49
H0000414	H0000414 Kea Water Treatmt Sys-PSD-CT5	G	7,662,444.94
	H0000415 Kea Water Treatmt Sys-PSD-CT5	G	2,972,767.00
H0000416	H0000416 Kea Fire Protect Sys-PSD	G	2,698,032.68
H0000462	H0000462 HELCO Lan/Wan	G	75,761.83
H0000466	H0000466 Confined Space Rescue-Equip	G	38.43
H0000546	H0000546 Puna Used Oil Facility	G	26,854.32
H0000549	H0000549 SEDANS & LIGHT TRUCKS	G	43,835.74
H0000558	H0000558 Technical Office Renovation	G	4,062.41
H0000643	H0000643 Waimea Baseyard Security Pro	G	(145,171.45)
H0000660	H0000660 Hill SPCC Projects	G	212,410.57
H0000668	H0000668 HELCO GAM Study	G	-
H0000672	H0000672 Main Ofc Bldg Improvements	G	43,848.37
H0000678	H0000678 Security Building and Facili	G	58,128.70
H0000687	H0000687 Substation Fencing	G	21,162.00
H0000787	H0000787 FRAMME Implementation	G	137,606.04
H0000788	H0000788 Document Imaging System	G	798.50
H0000845	H0000845 Kailua Emergency Generator	G	3,624.00
H0000853	H0000853 AMR - Turtle Meters & Eqpt	G	334,085.58
H0000887	H0000887 Shipman Fencing	G	142,236.99
H0000931	H0000931 Pohaku St Security Gate	G	1,368.85
H0000936	H0000936 Puna Plant Security Project	G	105,370.04
H0000942	H0000942 Keamuku Sub Security Sys	G	65,942.64
H0000943	H0000943 Kahaluu Substation Security	G	102,993.26
H0000944	H0000944 Kaumana Substation Security	G	79,550.52
H0000945	H0000945 Kuakini Sub-Station Security	G	84,667.01
H0000962	H0000962 New Shipman Windows	G	302,240.00
H0000967	H0000967 New Hilo Welding Shop	G	26,516.63
H0000986	H0000986 HWK Printer/Copier/Scanner	G	3,848.83
H0001024	H0001024 Keahole AQ Monitor	G	322,767.42

Hawaii Electric Light Company, Inc.
2004 Plant Additions by categories

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H0001032	H0001032 Acclg PC Replacements	G	3,588.61
H0001045	H0001045 Network Server Upgrade	G	131,717.08
H0001054	H0001054 Kuakini Self Storage	G	39,628.34
H0001076	H0001076 Kilauea Main Office ATS	G	42,994.42
	H4818000 Delta Mobile Radio	G	29,884.93
	H5001000 PROD DEPT TOOLS & EQUIP	G	103,833.11
	H5003000 ENGR DEPT TOOLS & EQUIP	G	6,058.98
	H5004000 DISTR DEPT TOOLS & EQUIP	G	159,265.67
	H5101000 CUST SVC DEPT OFFICE FURN	G	863.10
	H5102000 ACCTG DEPT OFFICE FURNIT	G	13,148.19
	H5103000 ENGR DEPT OFFICE FURNIT	G	2,365.93
	H5104000 DISTR DEPT OFFICE FURNIT	G	987.35
	H5126000 ENGR DEPT PC PURCHASE	G	38,490.32
	H5127000 DIST DEPT PC PURCHASE	G	4,718.59
	H5129000 CUST SVC PC PURCHASE	G	(20,836.11)
	H5148000 PROD MACH SHOP PRINTER	G	1,710.52
G Total			18,549,125.33
H0000138	H0000138 CT2 Noise Inhibitors	R	301,072.56
H0000186	H0000186 Volcano Natl Park Conv	R	5,494.91
H0000248	H0000248 Reconductor 12KV Dist. Sys.	R	-
H0000384	H0000384 Akekeke/Omao Conv	R	0.10
H0000440	H0000440 Kawaiiani Transf Upgrade	R	38,609.24
H0000447	H0000447 Kauhale 69kV Drop	R	48,014.70
H0000448	H0000448 Kauhale Sub Upgrade	R	241,099.54
H0000495	H0000495 Kapoho Supy	R	68,278.80
H0000518	H0000518 CT-2 Fuel Valve	R	83,568.14
H0000633	H0000633 SSPP Unit-639 Olivera	R	3,871.19
H0000640	H0000640 Kapua Disperse Generator	R	68,235.19
H0000657	H0000657 Puna Vari-Drive Fan	R	(0.01)
H0000707	H0000707 Pipeline PIG Upgrade	R	7,319.78
H0000711	H0000711 Puna Turbine Brg Sprinklers	R	499.83
H0000712	H0000712 Puna Burner Front Sprinklers	R	254.86
H0000723	H0000723 Host-Keahole Airport 12KV	R	27,512.19
H0000728	H0000728 Orchid Isle Sub Upgrade	R	31,681.70
H0000746	H0000746 CT-3 Batteries	R	15,201.11
H0000749	H0000749 Kan D-15 Controls	R	(1,060.63)
H0000755	H0000755 Kan D-11 Controls	R	179.49
H0000759	H0000759 Royal Hawaiian Sub Upgrade	R	274,000.60
H0000792	H0000792 Punaluu Disperse Generator	R	69,508.60
H0000817	H0000817 Kapoho Substation Grounding	R	150,935.92
H0000819	H0000819 Shipman 12 Regulators Inst	R	0.01
H0000824	H0000824 Hilo Medical CoGen DTT	R	53,554.35
H0000825	H0000825 Puna Turbine Vibration Mon	R	2,902.75
H0000835	H0000835 Puueo 11 Regulators	R	215.49
H0000839	H0000839 Kolea Subdivision Ph.2	R	476.78
H0000840	H0000840 Hill Plant 480V Upgrade	R	50,426.65
H0000847	H0000847 Pohoiki Sw Sta - Comm Tower	R	306,816.56
H0000855	H0000855 Kanoelehua 4 kv Switchgear	R	339,762.99
H0000856	H0000856 Puna CT3 E-Cell	R	91,443.40
H0000857	H0000857 Waimea EMD Roof/Rad Mod	R	2,780.00
H0000861	H0000861 H5 & H6 Delta V Separation	R	28,233.65
H0000866	H0000866 Hill Plant Fire Sys Improve	R	16,274.00
H0000867	H0000867 Chevron Diesel Pump Mod	R	339,084.18
H0000871	H0000871 Shipman 4 Feedwater Heater	R	873.48
H0000876	H0000876 Shipman Air Dryer	R	23.78
H0000878	H0000878 Shipman Reboiler and Piping	R	382,936.97
H0000881	H0000881 Ship 13.87KV Switchgear/Batt	R	(65,046.03)
H0000883	H0000883 Shipman 3 480v Switchgear	R	(160,351.67)
H0000884	H0000884 Shipman 4 480V Switchgear	R	(247,666.35)
H0000888	H0000888 Waimea 4kv Switchgear	R	254,351.33
H0000890	H0000890 Keahole D-22 Governor	R	17,660.81

Hawaii Electric Light Company, Inc.
2004 Plant Additions by categories

H0000891 H0000891 Keahole D-21 Governor	R	17,660.81
H0000892 H0000892 Kea D-23 Controls Upgrade	R	18,195.98
H0000916 H0000916 Main Ofc Transformer Repl	R	152,246.04
H0000929 H0000929 Kaumana 11 Regulators	R	0.16
H0000930 H0000930 Ahualoa Regulators	R	0.16
H0000947 H0000947 DHHL-KAUMANA-WAILUKU	R	87,261.65
H0000957 H0000957 Keahole-Host Park U.G. Feed	R	223,443.36
H0000973 H0000973 Kohanaiki Industrial Park	R	94,518.39
H0000995 H0000995 TRANS DN GUY REPL (NES)	R	8,082.53
H0001016 H0001016 Continental Pacific - RLOC	R	47,854.75
H0001019 H0001019 Kealakehe Substation Upgrade	R	143,029.61
H0001023 H0001023 Shipman 5.4 MVAR Cap Bank	R	131,656.58
H0001030 H0001030 H-5 Generator Stator Rewind	R	1,837,245.25
H0001039 H0001039 KONA HEIGHTS LOW VOLTAGE	R	34,575.01
H0001044 H0001044 RPR PRI. LINCOLN AVE.	R	72,850.62
H0001050 H0001050 CH KINOOLE CORRIDOR-SGNL	R	97,280.23
H0001070 H0001070 Hill 6 Ignitor Replacement	R	63,154.78
H0001072 H0001072 Puueo 13.8kV Upgrade	R	560,344.06
H0001073 H0001073 Hill/Chevron PIG Stations	R	229,282.55
H0001080 H0001080 KAUHALE SUB H-FRAME	R	55,130.87

Hawaii Electric Light Company, Inc.
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H0001099	H0001099 RPR Kohala 4.16 to 12.47 Con	R	38,057.90
H0001101	H0001101 Hill 5 Lube Oil Purifier	R	51,040.65
H1001000	H1001000 PURCHASE NEW KWH METERS	R	426,756.14
H1002000	H1002000 PURCH TSF AND RELATED EQ	R	2,609,136.60
H1006000	H1006000 POLE LINE REPL & RELOC	R	4,399,883.02
H1009000	H1009000 MINOR R/W SURVEY	R	8,488.32
H1010000	H1010000 POWER PLANT ADDITIONS	R	92,795.99
H1011000	H1011000 MINOR TRANS SUB ADDITIONS	R	50,950.34
H1012000	H1012000 UNIT SUBSTATION PURCHASE	R	814,094.20
H1014000	H1014000 MINOR TRANS LINE ADDITIONS	R	25,710.09
H1015000	H1015000 MINOR CABLE REPLACEMENT	R	252,800.04
H1016000	H1016000 MINOR DISTR SUB ADD	R	87,720.99
H1020000	H1020000 POWER STATION ADDITIONS	R	123,778.31
H3111000	H3111000 FIRE PROTECTION SYSTEM CT5	R	84,521.97
H3126000	CT-4 COMBUSTION TURBINE	R	37,072,662.82
H3147000	FUEL SYSTEM CT5	R	3,507,805.06
H3164000	CT-5 COMBUSTION TURBINE	R	32,799,447.00
H3166000	FUEL SYSTEM CT6	R	3,242,679.39
H3191000	CT4 WATER TREATMENT SYSTEM	R	515,364.08
H3194000	CT5 WATER TREATMENT SYSTEM	R	239,538.46
H3303000	KEAHOLE CT4 SW STN ADD	R	5,094,622.83
H3304000	KEAHOLE 20MW CT5 SW STN ADD	R	5,000,004.31
H3404000	Substation Equip Repl	R	132,889.41
H3422000	SUBSTN BATTERY BANK REPL	R	29,741.43
H3965000	GLENWOOD CONVERSION	R	73.11
H4800000	MINOR COMMUNICATIONS FAC	R	126,006.37
H4817000	Keahole CT5 Supy	R	25,943.69
H4870000	KEAHOLE CT4 SUPY	R	38,416.18
H0001074	H0001074 Puna Ignitor Replacement	R	154,722.54
H0000576	H0000576 Puna Boiler Ash System	R	76,000.00
HELC	H0000588 RPL Kohala (3300)	R	RPL Kohal -
H0000588	H0000588 RPL Kohala (3300)	R	-
H0000619	H0000619 RPL Mill Rd, Silverton Camp	R	15,457.13
H0000652	H0000652 RPR-HONOKAA MAUKA REPL	R	349.02
H0000854	H0000854 Kapoho Beach Lot Rpl	R	100,330.55
H0000882	H0000882 Shipman 3 MCC Replacement	R	3,340.07
H0000885	H0000885 Shipman 4 MCC Replacement	R	67,632.50
H0000897	H0000897 DLP Repl-Kahaluu	R	2,025.58
H0000898	H0000898 DLP Repl-Kailua	R	954.51
H0000900	H0000900 DLP Repl-Poopoomino	R	782.79
H0000903	H0000903 DLP Repl-Waimea	R	658.10
H0000909	H0000909 DLP Repl-Wailuku	R	743.60
H0000910	H0000910 DLP Repl-Puueo	R	589.62
H0000911	H0000911 DLP Repl-Pepeekeo	R	1,096.88
H0000912	H0000912 DLP Repl-Kaumana	R	2,359.00
H0000937	H0000937 RPR-CKT 1400 UG REPL	R	5,730.39
H0001021	H0001021 RPL Kahili St.	R	75,679.55
H0001022	H0001022 RPL Haina Mill Camp	R	29,732.49
H0001122	H0001122 RPL Poles Aina U'i Rd/Conv	R	29,380.42
H0001077	H0001077 SH NELHA Gateway Energy Ctr	R	46,404.19
R Total			104,227,741.96
H0000926	H0000926 Gateway Lab PV	RNS	151,708.66
H0000810	H0000810 Visitor Center PV	RNS	229,864.64
H0000661	H0000661 Hill Hydrogen Containment	RNS	29,032.85
RNS Total			410,606.15

Total **130,801,090.55**

Hawaii Electric Light Company, Inc.
2005 Plant Additions by categories

R=Reliability

C=Customer Addition

RS=REIP/Renewable Surcharge Recoverable

RNS=Renewable not Surcharge Recoverable

G=Other (General Plant)

H0000080 US-Dept of the Interior	0.02	C
H0000089 Parker Potable Well No. 1-UG	8.55	C
H0000126 Onomea Bay II Rd A-OH	2.02	C
H0000196 Alaka Falls Rd Reloc	(2,331.24)	C
H0000342 Hokulia PH1	1,356,752.53	C
H0000633 SSPP Unit-639 Olivera	(663.69)	C
H0000723 Host-Keahole Airport 12KV	-	C
H0000759 Royal Hawaiian Sub Upgrade	19,499.24	C
H0000805 Schuler Homes (Lualā'i S/D)	-	C
H0000838 Estates @ Mauna Kea	137,097.26	C
H0000839 Kolea Subdivision Ph.2	7,809.82	C
H0000954 Kolea Subdivision Ph.3	66,545.06	C
H0000955 Mauna Lani Res II	2,502.10	C
H0000957 Keahole-Host Park U.G. Feed	-	C
H0000963 SSPP Unit #716-Catrett	7,389.91	C
H0001009 Angay SSPP Unit #765	20,327.60	C
H0001011 Pualani Est Ph 1 OH Distr	349.65	C
H0001012 Fernandez-SSPP Unit #711	67,199.60	C
H0001015 Pu'aono Subdivision Incr. I	35,125.82	C
H0001048 Manini'owali S/D Ph. 2	591,913.94	C
H0001052 Kolea S/D Ph. 4	38,180.76	C
H0001053 Bayview Estates S/D Phase 3	16,604.84	C
H0001055 Pahoa Marketplace	283.47	C
H0001057 17th Fairway Villas	-	C
H0001058 KUKIO S/D PH III	174,774.61	C
H0001061 Onomea Bay Ranch	201,215.83	C
H0001068 SSPP 762 - JIM HALL	1,474.97	C
H0001085 Kupulau Meadows S/D	9,625.00	C
H0001088 Rapoza-SSPP Unit #767	220.05	C
H0001089 SSPP 755 - Ernest Billaber	21,079.16	C
H0001090 Sunset Ridge PH 2/2 Unit 2	28,618.32	C
H0001092 SSPP Unit 761 - Fix	825.00	C
H0001097 HUI 2002 PH II S/D	26,688.67	C
H0001098 Puuepa Ranch OH	35,017.30	C
H0001112 HUALALAI PARCEL 9 S/D	29,132.60	C
H0001114 SSPP Unit #787-Carson	808.59	C
H0001115 Dennis Young Subdivision	20,467.41	C
H0001116 Orchards at Pepeekeo - Ph 2	29,060.92	C
H0001117 Hualalai Hts - Offsite Imp	62,019.81	C
H0001124 SSPP Unit #775-Perriera	9,500.00	C
H0001126 Waikoloa Bch Dr. Ext Ph. III	124,125.04	C
H0001127 SSPP Unit #790-Ebelsheiser	13,206.93	C
H0001133 Lars Swann	46,464.31	C
H0001134 THY DEV LLC-KAAPAHU	61,401.97	C
H0001138 Linet-SSPP Unit #798	10,476.78	C
H0001232 Maniniowali S/D Ph1A	318,522.43	C
H0001233 Grassman-SSPP Unit #784	18,806.73	C
H0001236 SSPP 781-Armstrong	25,511.25	C
H0001238 SSPP Unit #795-Riendeau	37,672.74	C
H0001239 SSPP 757 - Smith	40,947.69	C
H0001240 SSPP 768 - Kinney	35,113.29	C
H0001241 SSPP Unit #803-Dills	12,301.28	C
H0001243 Keahuolu 69kV Drop & 12kV OH	98,709.74	C
H0001244 Keahuolu 12kV UG	38,637.86	C
H0001245 SSPP 758 - Lianes	34,887.45	C
H0001246 SSPP 780 - Malasig	13,813.62	C
H0001248 SSPP Unit #823-Silva	9,978.76	C
H0001250 SSPP 801-Correa	6,691.95	C
H0001252 Plantation Beach Club	23,281.62	C

Hawaii Electric Light Company, Inc.
 2005 Plant Additions by categories

H0001260	SSPP Unit 791-Hudak	17,316.70	C
H0001261	SSPP 782-Vana	8,546.91	C
H0001266	Maniniowali	68,374.52	C
H0001267	Hakalau Plantation Vill-OH	75,417.38	C
H0001268	SSPP 804-Frazier	24,710.58	C
H0001269	Estates at Mauna Kea Ph3	93,921.90	C
H0001273	SSPP 724-New Zealand	65,968.99	C
H0001275	Kawena St S/D	25,867.35	C
H0001276	SSPP 827-Howsley	27,661.54	C
H0001277	SSPP Unit 821-Roy	16,599.90	C
H0001278	SSPP Unit 799-Chalaire	18,341.69	C
H0001280	SSPP 812-Baybayan	56,445.70	C
H0001281	SSPP 840-Zimdars	14,825.28	C
H0001282	Hokulia Irrigation Lake Pump	18,198.04	C
H0001285	SSPP Unit #727-MIMS	32,897.56	C
H0001286	Hilolani	62,500.88	C
H0001287	Bill Evans	44,927.84	C
H0001288	SSPP Unit 769-Baker	8,692.67	C
H0001290	Puulani Lots 32&34	16,248.21	C
H0001291	Kukuinui Subdivision Incr I	47,534.63	C
H0001292	Hualalai Parcel 17 Subdivn	198,819.90	C
H0001293	Lisa Parrish	52,054.65	C
H0001295	Kamulani Subd	27,311.36	C
H0001296	Kukio Ph III Increment 2 S/D	146,334.38	C
H0001297	Na Hale O Keauhou	176,319.94	C
H0001300	Al Muro	74,543.44	C
H0001302	SSPP 811-Monohon	16,910.06	C
H0001303	SSPP 852-Metcalf	17,832.03	C
H0001304	Deep Sea International Water	26,112.88	C
H0001305	Alii Heights Unt 2 Ph 2 OH	107,720.64	C
H0001306	Alii Heights Unt 2 Ph 2 UG	575,894.68	C
H0001307	SSPP 839 - Tani	17,337.04	C
H0001308	Lualai S/D Ph 2A	66,837.36	C
H0001312	SSPP 850 - Mathes	12,408.72	C
H0001314	Shops at Mauna Lani	89,651.84	C
H0001315	Lualai S/D Ph 2B	16,809.38	C
H0001319	Alii Heights Unit 2 Ph 3 S/D	18,975.08	C
H0001321	SSPP 807 - Bodine	19,307.08	C
H0001322	SSPP 862 - Thompson	14,124.46	C
H0001323	Hawaii Deep Marine	29,714.11	C
H0001324	Palm Villas @ Mauna Lani	27,515.07	C
H0001325	SSPP 837 - Coskie	16,073.50	C
H0001326	SSPP 843 - Ward	14,697.37	C
H0001327	Hakalau Plantation Vg UG	35,660.79	C
H0001328	Kahaolino Subdivision	37,133.24	C
H0001335	Kaupulehu Potable Well No. 5	23,391.18	C
H0001336	Hilton Waikoloa Bay Club 2	60,014.53	C
H0001337	Sunset Ridge PH 3 Unit 2	195,968.67	C
H0001341	Thomas Woods	29,015.19	C
H0001343	SSPP 838 - SUGRUE	3,422.47	C
H0001345	WAIKOLOA BEACH VILLAS PH1	57,463.73	C
H1000000	MINOR OH SERVICES	1,781,387.64	C
H1003000	MINOR UG SERVICES	1,485,852.07	C
H1007000	MINOR OTHER OH ADDITIONS	(812,412.37)	C
H1008000	MINOR OH EXTN BELOW 20001	2,377,540.61	C
H1013000	MINOR OH LINE CONVERSIONS	15,255.46	C
H1017000	MINOR UG EXTN BELOW 20000	984,806.30	C
H4750000	OTHER UG ADDITIONS	(121.73)	C
C Total		12,768,357.96	
H0000010	Battery Replacement	51,845.85	G
H0000059	Lalamilo Tools & Equip	9,313.25	G
H0000061	Personnel PC Purchase	7,856.52	G
H0000176	Comm Site Air Conditioning	17,414.94	G
H0000188	Prod Dept PC Purchase	92,968.27	G
H0000229	PC Tools	(1,352.74)	G
H0000256	Security Program	170,547.75	G

Hawaii Electric Light Company, Inc.
 2005 Plant Additions by categories

H0000287 Kanoehua Carport	48,885.09	G
H0000295 Engr CADD Wrkstation Kona	20,551.66	G
H0000296 Engr CADD Wrkstation Hilo	73,405.01	G
H0000331 Heavy Trucks	841,616.37	G
H0000333 Cust Svcs Tools & Equip	2,965.87	G
H0000334 Cust Svcs Ofc Furniture	624.10	G
H0000335 Cust Svcs PC Purchase	19,270.16	G
H0000343 Keahole Supply Well	160,154.66	G
H0000413 Kea Warehouse/Shop Bldg-PSD	511,451.00	G
H0000414 Kea Water Treatmt Sys-PSD-CT4	(3,095,738.00)	G
H0000415 Kea Water Treatmt Sys-PSD-CT5	1,976,111.00	G
H0000416 Kea Fire Protect Sys-PSD	(6,610.00)	G
H0000462 HELCO Lan/Wan	60,090.60	G
H0000463 HELCO Win2000 upgrade	(4,197.03)	G
H0000469 Computer Purchase-Admin	9,862.61	G
H0000470 Battery Trailer-125/48 VDC	2,059.62	G
H0000478 PCB Containment Area	-	G
H0000497 Kona Baseyard-Eng Bldg	404,460.44	G
H0000526 Kan Baseyard Septic System	72,667.17	G
H0000549 SEDANS & LIGHT TRUCKS	1,487,460.62	G
H0000675 Laser Printer	5,434.67	G
H0000678 Security Building and Facili	68,258.68	G
H0000687 Substation Fencing	253,491.96	G
H0000730 Hawaiian Paradise Park Supy	40,548.65	G
H0000782 Computer Purchases	7,842.04	G
H0000846 PCB 1 year Storage Area	3,564.74	G
H0000848 Kaloko Sub UFR & Supy	71,164.61	G
H0000849 Kealakehe UFR & Supy	46,178.39	G
H0000853 AMR - Turtle Meters & Eqpt	297,249.14	G
H0000858 Kanoelehua Battery Replaceme	41,199.13	G
H0000887 Shipman Fencing	9,244.14	G
H0000889 Waimea Battery Replacement	39,726.73	G
H0000894 Keahole Battery Replacement	41,004.59	G
H0000942 Keamuku Sub Security Sys	13,438.57	G
H0000943 Kahaluu Substation Security	14,980.50	G
H0000944 Kaumana Substation Security	16,931.06	G
H0000945 Kuakini Sub-Station Security	13,468.25	G
H0000946 Keahole Plant Video Security	45,643.05	G
H0000948 Technical Aircond Unit	8,437.50	G
H0000964 Portable Radios	13,716.53	G
H0000968 Vacuum Bottle Test Set	8,332.39	G
H0000981 Tool Room Relighting	274.54	G
H0000989 Power Factor Test Set	42,712.38	G
H0001024 Keahole AQ Monitor	143,231.97	G
H0001032 Acctg PC Replacements	5,469.09	G
H0001045 Network Server Upgrade	23,023.27	G
H0001067 EMD Battery Monitoring System	-	G
H0001069 Puna Stack Camera	16,689.37	G
H0001100 Annual SCADA Upgrades	-	G
H0001106 Warehouse Lighting	33,333.12	G
H0001108 Dielectric Test Set	6,775.68	G
H0001109 Vacuum Pump	38,732.52	G
H0001131 Distribution PC Purchases	121,001.25	G
H0001136 Puna Paving	122,008.15	G
H0001139 Air Unit in Tool Container	769.00	G
H0001140 SCADA Platform Upgrade	429,355.68	G
H0001161 Shipman Rebuild Restrooms	-	G
H0001162 Ship Service Air Compressors	124,900.08	G
H0001170 Various Ext Lighting	9,500.00	G
H1019000 MISCELLANEOUS ENVIRON & OSHA PROJECTS	64,877.45	G
H3111000 FIRE PROTECTION SYSTEM CT4	49,583.54	G
H4800000 MINOR COMMUNICATIONS FAC	53,000.29	G
H4818000 Delta Mobile Radio	27,160.77	G
H4838000 Ainaloa Supv	75,288.69	G
H4900000 MINOR GENERAL PLANT	6,416.91	G
H5000000 ACCTG DEPT TOOLS & EQUIP	675.65	G

Hawaii Electric Light Company, Inc.
 2005 Plant Additions by categories

H5001000 PROD DEPT TOOLS & EQUIP	126,506.36	G
H5002000 CUST SVC DEPT TOOLS & EQUIP	11,420.40	G
H5003000 ENGR DEPT TOOLS & EQUIP	1,382.14	G
H5004000 DISTR DEPT TOOLS & EQUIP	160,754.87	G
H5005000 ADMIN DEPT TOOLS & EQUIP	4,831.70	G
H5063000 Helco Wan	(4,522.39)	G
H5086000 SUBSTATION TOOLS	46,794.84	G
H5102000 ACCTG DEPT OFFICE FURNIT	2,453.23	G
H5103000 ENGR DEPT OFFICE FURNIT	686.24	G
H5104000 DISTR DEPT OFFICE FURNIT	9,799.75	G
H5105000 PROD DEPT OFFICE FURNIT	9,957.66	G
H5126000 ENGR DEPT PC PURCHASE	32,652.23	G
H5129000 CUST SVC PC PURCHASE	13,115.27	G
H5200000 VEHICLES ALL DEPARTMENTS	83.71	G
H5251000 PC Management tools	-	G
H5253000 CADD Microstation Util	487.64	G
G Total	5,804,723.16	
H0000078 RPR DWS Olaa Pum Sta 6	16.44	R
H0000079 CH Manono/Lanikaula Sts	0.02	R
H0000350 Hokukano Sub	-	R
H0000445 Poopoomino #2 Tsf	826,699.44	R
H0000447 Kauhale 69kV Drop	22,497.53	R
H0000448 Kauhale Sub Upgrade	6,719.38	R
H0000453 HRD 34 kV Line & Drop	1,170,051.01	R
H0000527 Hill Septic System	76,359.34	R
H0000576 Puna Boiler Ash System	47,464.52	R
H0000645 Honokaa SubSta Fdr Ckt 15	(654.72)	R
H0000647 Panaewa Disperse Generator	74,528.05	R
H0000704 Kuakini 69/12KV Relocation	1,725,023.55	R
H0000708 Puna Reboiler	298,039.57	R
H0000735 S3 & S4 New CD Pumps	23,576.13	R
H0000801 Mamalahoa Hwy. Imp.	37,320.12	R
H0000832 Kailua SW Sta-19.2 MVAR Cap	1,211,276.55	R
H0000835 Puueo 11 Regulators	(3.83)	R
H0000855 Kanoelhua 4 kv Switchgear	1,883.87	R
H0000856 Puna CT3 E-Cell	71,709.11	R
H0000869 CT-3 Water Treatment Upgrade	-	R
H0000874 Shipman Pumps and Motors	415,108.77	R
H0000875 Shipman Steam APH Coils	-	R
H0000879 Shipman 4 Boiler Tube Repl	927,559.38	R
H0000883 Shipman 3 480v Switchgear	-	R
H0000884 Shipman 4 480V Switchgear	-	R
H0000929 Kaumana 11 Regulators	(0.16)	R
H0000930 Ahualoa Regulators	(0.16)	R
H0000933 Kukuihaele Regulators	59,737.36	R
H0000947 DHHL-KAUMANA-WAILUKU	(2,442.15)	R
H0000958 DHHL Uhaloa/Rd. A	51,185.09	R
H0001019 Kealakehe Substation Upgrade	35.87	R
H0001029 RPR - P-1 - P-8 Kan Ave	66,471.88	R
H0001040 Keahole Tank Farm Drainage	162,391.32	R
H0001044 RPR PRI. LINCOLN AVE.	9,274.32	R
H0001050 CH KINOOLE CORRIDOR-SGNL	7,188.99	R
H0001051 CH KILAUEA CORRIDOR-SGNL	14,031.50	R
H0001062 CT-2 Noise Mitigation	3,036,194.61	R
H0001070 Hill 6 Ignitor Replacement	(6,000.00)	R
H0001071 Anaehoomalu Xfmr Fan Add	13,357.02	R
H0001072 Puueo 13.8kV Upgrade	57,385.84	R
H0001073 Hill/Chevron PIG Stations	22,142.40	R
H0001074 Puna Ignitor Replacement	8,729.05	R
H0001075 Shipman 3 Boiler Tube Repl	850,274.08	R
H0001080 KAUHALE SUB H-FRAME	143.75	R
H0001082 Hill WWT System Auto Upgrade	913,109.77	R
H0001084 Breaker Maintenance	-	R
H0001093 CH Kawailani Bridge Replace	103,307.58	R
H0001101 Hill 5 Lube Oil Purifier	(7,000.00)	R
H0001103 Puna Boiler Retubing	(0.00)	R

Hawaii Electric Light Company, Inc.
 2005 Plant Additions by categories

H0001105 Transformer Mobile Substatio	438,952.13	R
H0001111 Hill 5 Battery Bank	8,748.20	R
H0001119 SH DHHL Panaewa Res-Unit 6	63,725.87	R
H0001120 Kuakini Unit Sub 2	499,012.49	R
H0001121 RPL Pri Melomele St	117,122.48	R
H0001122 RPL Poles Aina U'i Rd/Conv	11,612.46	R
H0001123 RPL TSF's Waikoloa - PCB	19,971.70	R
H0001125 Hill 6 "B" Unit Transformer	124,666.31	R
H0001132 RPL TSF's Kona Highlands	20,757.90	R
H0001137 Puna CT3 Stack Lighting	-	R
H0001142 Keahuolu Sub	1,133,319.61	R
H0001149 Shipman Solid State Exciter	228,045.26	R
H0001152 CT3 Governor Control Upgrade	668,897.77	R
H0001153 CT4 Governor Control Upgrade	411,105.94	R
H0001154 CT5 Governor Control Upgrade	905,836.71	R
H0001198 Hilo to Humuula MW Upgrade	152,349.75	R
H0001199 Keahole Sta 32 RTU Repl	80,354.82	R
H0001206 Waimea CB7701 Replacement	92,490.33	R
H0001234 RPL Oceanic Time Warner Cabl	182,735.23	R
H0001237 Kan Base Prod Gate Repl	-	R
H0001242 RPL Keauhou Loop Line	79,562.71	R
H0001254 Hill 5 480V Switchgear Repl	239,129.41	R
H0001255 Hill 5 480v MCC Replacement	160,994.74	R
H0001257 Hill 6 Plume Program	111,933.34	R
H0001263 RPL Various Poles Lakeland	25,063.68	R
H0001317 CH DWS POHAKA BPS "C"	50,908.44	R
H1001000 PURCHASE NEW KWH METERS	564,854.40	R
H1002000 PURCH TSF AND RELATED EQ	4,589,651.13	R
H1006000 POLE LINE REPL & RELOC	1,923,421.79	R
H1009000 MINOR R/W SURVEY	(1,307.41)	R
H1010000 POWER PLANT ADDITIONS	140,668.95	R
H1011000 MINOR TRANS SUB ADDITIONS	93,403.44	R
H1012000 UNIT SUBSTATION PURCHASE	340,590.40	R
H1014000 MINOR TRANS LINE ADDITIONS	-	R
H1015000 MINOR CABLE REPLACEMENT	44,788.09	R
H1016000 MINOR DISTR SUB ADD	30,488.68	R
H1020000 POWER STATION ADDITIONS	168,782.02	R
H3126000 CT-4 COMBUSTION TURBINE	3,454,525.83	R
H3147000 FUEL SYSTEM CT4	151,652.58	R
H3164000 CT-5 COMBUSTION TURBINE	3,156,114.87	R
H3166000 FUEL SYSTEM CT5	138,995.75	R
H3191000 CT4 WATER TREATMENT SYSTEM	35,704.30	R
H3194000 CT5 WATER TREATMENT SYSTEM	69,723.55	R
H3303000 KEAHOLE CT4 SW STN ADD	(33,350.22)	R
H3304000 KEAHOLE 20MW CT5 SW STN ADD	287,394.95	R
H3404000 Substation Equip Repl	78,367.78	R
H3406000 RECLOSER UPGRADES	302,926.07	R
H3422000 SUBSTN BATTERY BANK REPL	54,444.95	R
H0000648 RPL Kona (Palisades)	586,775.53	R
H0001021 RPL Kahili St.	-	R
H0001022 RPL Haina Mill Camp	372.94	R
H0001271 Keamuku CB6802 Replacement	98,471.77	R
H0001283 Shipman Ir Shipman Ir Shipman Industrial Ph 1D	152,741.24	R
H0001318 7601 Line Insulator Replacem	52,300.73	R
R Total	34,604,493.58	
H0000850 Puueo Hydro	2,078,328.04	RNS
H0001165 Waiau Hydro Exciter & Governor	487,457.54	RNS
H0000763 Offgrid PV Lights	7.00	RNS
RNS Total	2,565,792.58	
Total	55,743,367.28	

R=Reliability

C=Customer Addition

RS=REIP/Renewable Surcharge Recoverable

RNS=Renewable not Surcharge Recoverable

G=Other (General Plant)

H0000106 Kaloko Business Park	C	3,250.06
H0000342 Hokulia PH2	C	(1,499.51)
H0000386 State Office Building 3	C	13.52
H0000451 Waikoloa Pump 12KV UG	C	43,436.29
H0000452 Waikoloa Well #6 OH 12KV	C	177,278.75
H0000550 McClean Properties S/D	C	-
H0000633 SSPP Unit-639 Olivera	C	(6,421.99)
H0000700 Sunrise Ridge Ph 3	C	213,183.26
H0000955 Mauna Lani Res II	C	42,642.40
H0001058 KUKIO S/D PH III	C	(133.23)
H0001071 Anaehoomalu Xfmr Fan Add	C	91.78
H0001081 Keauhou Heights S/D	C	-
H0001112 HUALALAI PARCEL 9 S/D	C	(33.31)
H0001117 Hualalai Hts - Offsite Imp	C	-
H0001134 THY DEV LLC-KAAPAHU	C	3,189.85
H0001146 RPR Kona Palisades UG Ph 4	C	336,531.03
H0001232 Maniniowali S/D Ph1A	C	92.06
H0001235 Iolani S/D Inc 4 Ph 1	C	23,719.40
H0001243 Keahuolu 69kV Drop & 12kV OH	C	10,549.31
H0001244 Keahuolu 12KV UG	C	82,471.99
H0001249 Alii Heights Unit 2 Ph 1 S/D	C	512,399.18
H0001265 Kahala Ranch PH IV	C	89,678.34
H0001266 Maniniowali	C	663.17
H0001270 Manini'owali Offsite	C	278,687.97
H0001272 SSPP 753-Granahan	C	28,563.46
H0001273 SSPP 724-New Zealand	C	28,584.41
H0001284 Puuepa Ranch Subd	C	193,209.20
H0001289 Mark Lau	C	124,879.82
H0001296 Kukio Ph III Increment 2 S/D	C	37,100.53
H0001298 Regina Kaneakua	C	32,830.51
H0001299 SSPP Unit #796-Camp	C	14,335.13
H0001300 Al Muro	C	772.65
H0001301 Victoria Nuniez	C	84,312.33
H0001305 Alii Heights Unt 2 Ph 2 OH	C	40,179.76
H0001306 Alii Heights Unt 2 Ph 2 UG	C	40,838.19
H0001307 SSPP 839 - Tani	C	37,681.84
H0001308 Lualai S/D Ph 2A	C	27,564.19
H0001311 Wohlschlagel-SSPP Unit #855	C	19,781.55
H0001312 SSPP 850 - Mathes	C	3,721.44
H0001313 Halii Kai	C	198,136.80
H0001319 Alii Heights Unit 2 Ph 3 S/D	C	70,147.80
H0001320 SSPP Unit #858 - Arnold	C	12,441.75
H0001327 Hakalau Plantation Vg UG	C	(445.65)
H0001329 Waikoloa Beach Marriott	C	72,830.19
H0001333 Kuakini Sub 2 12kV UG	C	174,911.24
H0001334 Kuakini Sub 2 69kV Drop	C	31,351.99
H0001336 Hilton Waikoloa Bay Club 3	C	90,727.74
H0001337 Sunset Ridge PH 3 Unit 3	C	90,435.23
H0001338 SSPP 867 - Camacho	C	27,199.93
H0001339 SSPP 826 - Riordan	C	36,983.61
H0001340 Ram, Jay	C	63,474.58
H0001341 Thomas Woods	C	10,466.14
H0001342 HUALALAI PARCEL 10A	C	138,564.94
H0001343 SSPP 838 - SUGRUE	C	1,740.18
H0001345 WAIKOLOA BEACH VILLAS PH2	C	55,237.80

Hawaii Electric Light Company, Inc.
 2006 Plant Additions by categories

H0001417	Hanaula Subd	C	61,464.89
H0001418	Kikaha @ Wehilani	C	510,669.52
H0001419	Parker Well #2	C	74,096.64
H0001420	Sunset Ridge PH. 3 Unit 4	C	157,622.81
H0001421	Neil Vieth	C	34,631.67
H0001422	Virn Patton	C	53,821.46
H0001423	SSPP 809 - Desouza	C	24,902.58
H0001424	SSPP 848 - Atkinson	C	21,210.78
H0001425	SSPP 868 - Berkich	C	27,002.35
H0001426	SSPP 866 - Pua Mauka Dev	C	30,012.10
H0001427	SSPP 895 - Wolske	C	13,351.51
H0001428	SSPP 833 - Caldwell	C	51,376.12
H0001429	SSPP 894 - Randall	C	21,811.30
H0001430	Glenwood Farm Lots	C	160,491.43
H0001431	Joseph Magaldi	C	41,746.47
H0001432	Whitney, Vivian	C	44,548.68
H0001434	Peter Aickin	C	28,738.54
H0001435	Kikala Keokea Subdivision	C	402,859.45
H0001436	Halelli S/D	C	71,019.12
H0001437	SSPP Unit 857 - Alderdyce	C	25,546.82
H0001438	KEAHOLE HTS PH II	C	30,841.12
H0001439	Harris, Anthony & Fronda	C	28,068.56
H0001441	SSPP 905 - Pied	C	16,816.02
H0001442	Golf Villas	C	99,625.84
H0001443	Koyo USA 4	C	127,354.21
H0001444	Lokahi Makai-Phase 2	C	399,204.04
H0001445	Lokahi Makai-Phase 3	C	422,770.71
H0001447	SSPP Unit #890-Warren	C	44,454.55
H0001448	SSPP 808 - Dang	C	55,583.07
H0001449	SSPP Unit #884-Scarborough	C	30,048.80
H0001450	Hapuu-Kapania S/D	C	49,807.51
H0001451	Puaono S/D - Increment II	C	38,197.83
H0001452	SSPP Unit #885 - Sieber	C	22,504.48
H0001453	Kulalani	C	79,559.99
H0001455	Waikoloa Bch Villas PH II	C	44,431.54
H0001462	Alii Cove	C	160,435.21
H0001464	SSPP 865 - Denson	C	20,323.37
H0001465	SSPP 871 - Jeanneault	C	25,746.93
H0001466	SSPP Unit #903 - Boyles	C	31,185.89
H0001469	Deluz, Frank Jr	C	41,056.12
H0001470	Hualalai Parcel 10B & 13 S/D	C	585,043.16
H0001471	Hainoa Villas Parcel 7B	C	68,736.55
H0001473	Hualali parcel 16B Subdvn	C	202,178.62
H0001474	Hualalai Heights S/D	C	61,044.13
H0001475	Waiulaula	C	256,231.10
H0001476	SSPP 835 - Ortega	C	56,692.44
H0001477	Pualani Estates S/D Phase 3	C	690,097.76
H0001478	St Ambrogio, Roberta	C	30,392.20
H0001480	Greer, David & Doris	C	38,010.13
H0001481	SSPP 900 - Dickerson	C	31,068.61
H0001482	Alli Heights Unit 2 Phase 5	C	72,318.89
H0001483	Deborah & Richard Ryken	C	92,666.12
H0001484	Maniniowali S/D Ph.3	C	451,212.23
H0001485	Orchards at Pepeekeo Ph 3	C	94,629.57
H0001486	Deluz-Campbell, Brenda	C	87,801.99
H0001488	SSPP 908 Derkovich	C	27,686.10
H0001489	SSPP 922 Elmore	C	41,835.05
H0001490	Volcano Golf & Country Club	C	40,561.56
H0001491	SSPP Unit #911-Edelhertz	C	18,204.33
H0001492	SSPP 859 - Cabral	C	44,605.16
H0001494	SSPP Unit #877 - Thacher	C	17,691.94

H0001495 Makana Kai @ Wehilani	C	95,488.90
H0001496 Waimea Parkside PUD	C	50,355.34
H0001498 SSPP Unit #897 - Sherrell	C	18,977.49
H0001499 Hua'aina S/D	C	20,177.63
H0001500 Alii Heights Unit 2 Ph 5 S/D	C	78,660.96
H0001501 SSPP 904 Streich	C	20,314.09
H0001503 Geiger, Dwight & Eileen	C	42,896.71
H0001504 Mitsuda, Jon & Melissa	C	29,293.82
H0001509 Koyanagi S/D	C	19,301.77
H0001512 Charlie L. Erck	C	26,923.73
H0001513 Tim DeLozier	C	41,106.15
H0001514 Sugarcane Lane S/D	C	26,383.93
H0001515 Feeney S/D	C	17,890.44
H0001516 Dilworth, Gregory L.	C	25,991.66
H0001517 KARL NOBRIGA	C	29,098.65
H0001519 Kahakai Place PUD	C	49,844.34
H0001520 Matsuyama Store	C	19,312.94
H0001522 PUAKEA RANCH SUBDIVISION	C	109,573.19
H0001524 O'OMA PLANTATION	C	36,680.03
H0001534 SSPP 936 Lawler	C	33,855.09
H0001535 Uplands at Kaohe S/D	C	66,632.26
H0001536 Ranch @ Puakea OH	C	48,962.82
H0001539 Kaupulehu Irr Well #6	C	69,313.13
H0001540 Waikoloa Park Comfort Sta	C	39,257.97
H0001544 Enzamin	C	33,940.70
H0001545 Mauna Lani Site K	C	42,692.35
H1000000 MINOR OH SERVICES	C	2,185,472.03
H1003000 MINOR UG SERVICES	C	1,577,377.06
H1007000 MINOR OTHER OH ADDITIONS	C	355,349.76
H1008000 MINOR OH EXTN BELOW 20000	C	3,971,034.57
H1013000 MINOR OH LINE CONVERSIONS	C	2,416.19
H1017000 MINOR UG EXTN BELOW 20001	C	489,107.57
H3501000 CHRISTOPHER NORRIE	C	-
H4750000 OTHER UG ADDITIONS	C	26,342.51
C Total		19,932,023.05
H0000010 Battery Replacement	G	39,067.40
H0000176 Comm Site Air Conditioning	G	8,733.30
H0000188 Prod Dept PC Purchase	G	19,428.79
H0000274 Main Office AC Improvement	G	(22,419.11)
H0000295 Engr CADD Wrkstation Kona	G	33,905.74
H0000296 Engr CADD Wrkstation Hilo	G	68,595.44
H0000331 Heavy Trucks	G	(863.49)
H0000333 Cust Svcs Tools & Equip	G	373.60
H0000335 Cust Svcs PC Purchase	G	14,237.50
H0000413 Kea Warehouse/Shop Bldg-PSD	G	(233,244.00)
H0000414 Kea Water Treatmt Sys-PSD-CT5	G	1,360,854.00
H0000415 Kea Water Treatmt Sys-PSD-CT6	G	(106,343.00)
H0000416 Kea Fire Protect Sys-PSD	G	145,200.00
H0000455 HRD Comm Link	G	220,913.62
H0000456 HRD Supy	G	43,790.78
H0000462 HELCO Lan/Wan	G	99,407.03
H0000469 Computer Purchas-Admin	G	9,388.51
H0000497 Kona Baseyard-Eng Bldg	G	36,381.93
H0000548 MEDIUM TRUCKS	G	179,669.88
H0000549 SEDANS & LIGHT TRUCKS	G	279,338.20
H0000655 Keahole Land Reclassification/Rezoning	G	1,958,392.22
H0000678 Security Building and Facili	G	141,118.13
H0000679 Security Plants	G	142,673.10
H0000687 Substation Fencing	G	131,858.19
H0000730 Hawaiian Paradise Park Supy	G	11,861.31
H0000848 Kaloko Sub UFR & Supy	G	298.52

Hawaii Electric Light Company, Inc.
 2006 Plant Additions by categories

H0000852 Keauhou UFR & Supy	G	70,752.76
H0000853 AMR - Turtle Meters & Eqpt	G	558,327.51
H0001024 Keahole AQ Monitor	G	-
H0001032 Acctg PC Replacements	G	12,413.05
H0001033 COH MW Upgrade-Hilo Base	G	41,698.95
H0001034 COH MW Upgrade-Kulani Cone	G	48,179.10
H0001035 COH MW Upgrade-Naalehu Past	G	112,488.27
H0001036 COH MW Upgrade-South Point	G	63,880.08
H0001037 COH MW Upgrade-Ohia Mill	G	84,033.38
H0001038 COH MW Upgrade-Hill Plant	G	56,951.33
H0001066 Puna Septic System	G	154,463.70
H0001131 Distribution PC Purchases	G	6,854.55
H0001140 SCADA Platform Upgrade	G	9,132.91
H0001141 Crimp Tools	G	9,717.65
H0001148 Kanoe Operations Ctr Server	G	12,356.26
H0001168 Battery Compression Tools	G	30,092.81
H0001169 West HI Sub Trailer	G	33,197.51
H0001171 Pave Kona Baseyard	G	63,000.00
H0001176 Enclosed Office Tsf Shop	G	13,413.98
H0001181 Waimea Emergency Generator	G	54,022.14
H0001195 MW Radio Repl-Kaumana - Puna	G	105,418.27
H0001346 AED Program - Equip Purchase	G	12,577.83
H0001347 Three Phase Record VoltMeter	G	9,145.38
H0001348 Single Phase Record Voltmete	G	43,553.81
H0001349 Power Factor Test Set	G	45,472.23
H0001354 Mini Mobile Sub	G	33,055.61
H0001356 Radio Console Upgrade	G	88,655.37
H0001360 Kuakini Distr & Svcs	G	888,373.41
H0001364 Hilo to Kaumana MW Upgrade	G	85,875.34
H0001380 Keamuku Station Service	G	152,176.53
H0001385 Maint Shop Drill Press	G	26,796.55
H0001409 Computer Based Training	G	6,129.92
H0001412 Safety Office Renovation	G	16,525.40
H0001415 RECORDS MANAGEMENT	G	18,475.72
H0001416 COMPUTER UPGRADES	G	2,995.49
H0001454 Keahole SS Base Station	G	42,368.51
H0001456 Maint Shop Bridge Crane	G	55,586.52
H0001458 Keahole Fire Alarm Connectn	G	77,236.95
H0001493 7KVA UPS Upgd Hilo Base Yard	G	19,159.05
H0001526 SF6 Analyzer	G	23,420.74
H0001527 SF6 Gas Reclaimer	G	19,164.60
H0001528 SAFETY TOOLS	G	57,378.88
H0001531 Respirator Program - Equip	G	17,901.71
H0001532 Multi-Gas Docking Station	G	5,149.32
H1019000 MISC ENVIRON & OSHA PROJECTS	G	84,033.44
H4800000 MINOR COMMUNICATIONS FAC	G	28,962.30
H4818000 Delta Mobile Radio	G	23,155.20
H4900000 MINOR GENERAL PLANT	G	10,215.15
H5000000 ACCTG DEPT TOOLS & EQUIP	G	449.21
H5001000 PROD DEPT TOOLS & EQUIP	G	112,104.26
H5002000 CUST SVC DEPT TOOLS & EQUIP	G	873.43
H5003000 ENGR DEPT TOOLS & EQUIP	G	2,593.77
H5004000 DISTR DEPT TOOLS & EQUIP	G	190,604.90
H5102000 ACCTG DEPT OFFICE FURNIT	G	(99.19)
H5103000 ENGR DEPT OFFICE FURNIT	G	14,003.12
H5104000 DISTR DEPT OFFICE FURNIT	G	1,405.30
H5105000 PROD DEPT OFFICE FURNIT	G	5,992.63
H5125000 ACCTG DEPT PC PURCHASE	G	-
H5126000 ENGR DEPT PC PURCHASE	G	9,245.64
H5129000 CUST SVC PC PURCHASE	G	3,287.72
G Total		8,357,013.55

Hawaii Electric Light Company, Inc.
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H0000192 Keahole Plant Noise Abatement	R	-
H0000283 Holualoa Substation Lot	R	64,398.89
H0000445 Poopoomino #2 Tsf	R	27,407.07
H0000449 Waikoloa Pump Sub	R	1,229,072.72
H0000450 Waikoloa Pump 69KV	R	41,904.30
H0000453 HRD 34 kV Line & Drop	R	268,216.30
H0000454 HRD Switching Station	R	233,956.19
H0000520 Hill Plant Boiler Water Purification	R	598,466.64
H0000527 Hill Septic System	R	3,920.21
H0000576 Puna Boiler Ash System	R	-
H0000646 Hawi Basestation	R	41,761.98
H0000704 Kuakini 69/12KV Relocation	R	56,780.28
H0000705 Hawi Conv Ph 6	R	461,135.99
H0000725 Queen K-Kaiwi-Palani 69KV	R	1,707,174.01
H0000759 Royal Hawaiian Sub Upgrade	R	(162.68)
H0000801 Mamalahoa Hwy. Imp.	R	67,818.36
H0000835 Puueo 11 Regulators	R	51,121.17
H0000850 Puueo Hydro	R	203,781.51
H0000863 Puna Day Tank Modification	R	66,829.61
H0000879 Shipman 4 Boiler Tube Repl	R	906.18
H0001040 Keahole Tank Farm Drainage	R	55,521.42
H0001050 CH KINOOLE CORRIDOR-SGNL	R	(632.22)
H0001051 CH KILAUEA CORRIDOR-SGNL	R	133,435.77
H0001062 CT-2 Noise Mitigation	R	18,214.67
H0001063 Kan to Shipman Fiber	R	99,816.50
H0001082 Hill WWT System Auto Upgrade	R	8,291.85
H0001102 Shipman PIG Station & Pumps	R	227,363.90
H0001104 Breaker Maintenance #3	R	-
H0001120 Kuakini Unit Sub 3	R	177,822.41
H0001135 Shipman Vibration Monitr Eqp	R	88,764.00
H0001142 Keahuolu Sub	R	1,503.23
H0001149 Shipman Solid State Exciter	R	172,766.87
H0001152 CT3 Governor Control Upgrade	R	(53.80)
H0001153 CT4 Governor Control Upgrade	R	189,484.88
H0001154 CT5 Governor Control Upgrade	R	(316,145.02)
H0001158 CT-1 Low Smoke Fuel Nozzles	R	-
H0001165 Waiau Hydro Exciter & Governor	R	(230,223.63)
H0001177 Pole Restoration	R	225,546.24
H0001180 Replace Old Service Conduct	R	41,930.32
H0001186 Ainaloa Sub Xfmr Upgrade	R	48,781.00
H0001187 Dist Relay Upgd-Line 6601	R	41,415.12
H0001188 Dist Relay Upgd-Pohoiki	R	40,175.65
H0001189 Dist Relay Upgd-Puna	R	18,396.92
H0001190 Undervolt Loadshed-Block 2	R	219,479.54
H0001193 Undervolt Loadshed-Block 5	R	88,637.68
H0001194 Undervolt Loadshed-Block 5	R	283,501.16
H0001200 Honomu Sub Safety Mod	R	59,571.22
H0001207 Apollo Kilauea Relay Upgd	R	79,609.37
H0001208 Apollo Kealia Relay Upgd	R	91,111.67
H0001262 CH DWS Kaieiei Well	R	346,387.50
H0001271 Keamuku CB6802 Replacement	R	4,688.60
H0001316 SH KULANI WASTEWATER TRE	R	107,078.14
H0001330 Hill 5 Battery Bank	R	47,960.72
H0001331 13.8KV Breakers in Kan Bldg	R	272,914.74
H0001344 UPS Upgd Hilo Base Yard	R	40,886.82
H0001353 KPF Switch Upgrade	R	75,189.07
H0001361 Komohana Sub Xfmr Upgrade	R	37,470.76
H0001368 Kaloko Unit #2 Transf	R	834,172.63
H0001369 Kaloko #2 12KV UG Getaway	R	94,252.72
H0001378 Kailua to Kahaluu MW Upgd	R	130,958.95
H0001394 Kea CT-2 Governor Controls	R	1,286,355.92

Hawaii Electric Light Company, Inc.
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H0001433 Ship BFW Motors and Related	R	167,482.64
H0001446 Puna Yard Drainage	R	78,881.11
H0001542 Puna CB3401 Replacement	R	65,479.24
H1001000 PURCHASE NEW KWH METERS	R	599,057.88
H1002000 PURCH TSF AND RELATED EQ	R	4,544,271.00
H1006000 POLE LINE REPL & RELOC	R	2,545,028.11
H1010000 POWER PLANT ADDITIONS	R	83,129.15
H1012000 UNIT SUBSTATION PURCHASE	R	447,287.94
H1014000 MINOR TRANS LINE ADDITIONS	R	10,345.67
H1015000 MINOR CABLE REPLACEMENT	R	58,111.39
H1016000 MINOR DISTR SUB ADD	R	46,768.54
H1020000 POWER STATION ADDITIONS	R	160,708.75
H3126000 CT-4 COMBUSTION TURBINE	R	(594,242.05)
H3147000 FUEL SYSTEM CT5	R	3,580.58
H3164000 CT-5 COMBUSTION TURBINE	R	(934,515.87)
H3166000 FUEL SYSTEM CT6	R	(330.42)
H3191000 CT4 WATER TREATMENT SYSTEM	R	-
H3303000 KEAHOLE CT4 SW STN ADD	R	299,878.00
H3304000 KEAHOLE 20MW CT5 SW STN ADD	R	(20,867.00)
H3404000 Substation Equip Repl	R	273,512.31
H3422000 SUBSTN BATTERY BANK REPL	R	61,504.53
H0000648 RPL Kona (Palisades)	R	40,938.89
H0001022 RPL Haina Mill Camp	R	530.51
H0001121 RPL Pri Melomele St	R	8,047.52
H0001128 RPL WAIAU SUB	R	53,229.03
H0001256 Pier 3 Fuel Pipeline Repl	R	313,006.56
H0001264 RPL Ancs Puako-Wailea Rd	R	137,498.68
H0001371 CD7201 Replacement	R	89,714.81
H0001372 CB7301 Replacement	R	84,491.32
H0001463 Kealakaha Bridge Replacement	R	519,658.92
H0001472 CB7602 Replacement	R	74,050.93
H0001530 RPL Secondary Komohana St.	R	21,325.87
R Total		19,504,456.56
H0000763 Offgrid PV Lights	RNS	(7.00)
RNS Total		(7.00)
	Total	47,793,486.16

Hawaii Electric Light Company, Inc.
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R=Reliability

C=Customer Addition

RS=REIP/Renewable Surcharge Recoverable

RNS=Renewable not Surcharge Recoverable

G=Other (General Plant)

H0000095 US-Dept of the Interior	0.11	C
H0000254 Nackowski Subd UG	86.52	C
H0000342 Hokulia PH2	3,936.31	C
H0000451 Waikoloa Pump 12KV UG	(4,254.59)	C
H0000452 Waikoloa Well #6 OH 12KV	(3,599.75)	C
H0000650 Kuklo 69KV UG Conversion	-	C
H0000700 Sunrise Ridge Ph 3	(816.69)	C
H0000932 Sheraton Keauhou Bay CHP	-	C
H0000966 SH DOT Ph. II Traffic Signal	170.68	C
H0001016 Continental Pacific - RLOC	3,114.68	C
H0001114 SSPP Unit #787-Carson	251.56	C
H0001251 Cardoza-LE Relocation	104,430.37	C
H0001281 SSPP 840-Zimdars	67.86	C
H0001332 Raymond Kobayashi	-	C
H0001418 Kikaha @ Wehilani	(1,415.22)	C
H0001435 Kikala Keokea Subdivision	5,833.59	C
H0001436 Haleili S/D	1,964.96	C
H0001452 SSPP Unit #885 - Sieber	6,583.59	C
H0001465 SSPP 871 - Jeanneault	149.34	C
H0001470 Hualalai Parcel 10B & 13 S/D	(13,952.06)	C
H0001477 Pualani Estates S/D Phase 2	(1,344.75)	C
H0001484 Maniniowali S/D Ph.2	6,323.85	C
H0001487 Volcano Golf - Unit V-UG	63,320.81	C
H0001488 SSPP 908 Derkovich	2,700.00	C
H0001489 SSPP 922 Elmore	0.01	C
H0001490 Volcano Golf & Country Club	0.23	C
H0001491 SSPP Unit #911-Edelhertz	259.37	C
H0001492 SSPP 859 - Cabral	-	C
H0001502 Honolii Ridge Inc. 2	34,526.11	C
H0001504 Mitsuda, Jon & Melissa	778.12	C
H0001510 SSPP 875 Emeliano	56,467.16	C
H0001512 Charlie L. Erck	(850.00)	C
H0001513 Tim DeLozier	67.88	C
H0001514 Sugarcane Lane S/D	(333.67)	C
H0001516 Dilworth, Gregory L.	475.52	C
H0001517 KARL NOBRIGA	847.05	C
H0001518 Island Ohana Dental	81,940.14	C
H0001519 Kahakai Place PUD	4,795.16	C
H0001521 SENA S/D	48,801.28	C
H0001522 PUAKEA RANCH SUBDIVISION	782.91	C
H0001523 KING SUBDIVISION	44,594.59	C
H0001524 O'OMA PLANTATION	16,519.58	C
H0001525 SSPP Unit 906 - Killiam	28,168.85	C
H0001533 SSPP 917 Meredith	42,261.77	C
H0001534 SSPP 936 Lawler	1,525.08	C
H0001535 Uplands at Kaohe S/D	13,869.02	C
H0001536 Ranch @ Puakea OH	2,092.82	C
H0001537 Ranch @ Puakea UG	45,252.14	C
H0001539 Kaupulehu Irr Well #6	(6,456.19)	C
H0001540 Waikoloa Park Comfort Sta	(1,837.32)	C
H0001541 Kona Vista S/D Unit II	416,697.32	C
H0001543 Business Services Hawaii	51,408.46	C
H0001546 Lokahi Makai Phase 3A - UG	97,507.91	C
H0001547 Lokahi Makai Phase 3B	17,189.96	C
H0001548 Lokahi Makai Phase 5	112,025.30	C

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H0001618 SSPP Unit #932 - Grieser	51,467.23	C
H0001619 HEA HAI S/D	56,901.18	C
H0001620 Waikoloa Well #6 UG	30,581.29	C
H0001626 PBARC-Perm UG Svc	36,819.53	C
H0001627 Royal Kamehameha Gardens	548,426.66	C
H0001628 Sunset Ridge 3/4	189,232.02	C
H0001629 Sunset Ridge PH 3 Unit 5	381,691.33	C
H0001630 Ke Kailani at Mauna Lani	615,040.93	C
H0001632 Keopu Aina Property S/D OH	140,449.59	C
H0001633 Hualalai Loop Road 4A	252,759.26	C
H0001634 SSPP Unit #902 - Delima	25,470.63	C
H0001635 SSPP Unit #930-Terry	17,546.02	C
H0001636 SSPP Unit #918-Steele	14,625.96	C
H0001637 SSPP Unit #933-Drumm	10,797.30	C
H0001638 SSPP Unit #948-Beard	15,372.84	C
H0001639 SSPP 931 Tobias	41,388.98	C
H0001640 SSPP 920 Butler	27,566.63	C
H0001641 SSPP 949 Beeman	23,299.54	C
H0001642 SSPP 926 Chang	34,753.68	C
H0001643 SSPP 874- Hyland	30,854.29	C
H0001644 SSPP 886 Vitales	26,087.25	C
H0001647 SSPP 945 Antolin	19,746.91	C
H0001648 PIT Inc	32,110.53	C
H0001649 SSPP 928 SOCHOR	47,782.68	C
H0001651 Hilo Airport-upgr. elec.	49,127.59	C
H0001652 SSPP Unit # 941 - Sprague	13,728.61	C
H0001653 SSPP Unit #959-Wong	22,156.30	C
H0001655 Hubbard, Ronald	22,495.34	C
H0001656 MAKAPALA DEEPWELL PUMP	109,844.66	C
H0001657 WVGC Irr. Well	55,764.61	C
H0001658 Alii Drive Bypass Road	167,021.89	C
H0001659 Queens Marketplace	212,746.91	C
H0001661 Blanchard, Norman	17,894.63	C
H0001662 Kilohana Kai Phs 2-1 to 2-5	206,385.12	C
H0001663 SSPP Unit #923 - Parel	14,262.02	C
H0001664 Kona Sea Ranch Phase 1 S/D	183,562.25	C
H0001665 Makalapua Business Center	890,118.76	C
H0001666 Lokahi Kau Access Road	475,013.84	C
H0001667 Carrisal, Antonio & Juanita	40,577.92	C
H0001668 Wilbert Kollenbaum	19,942.05	C
H0001669 Kuntz, Debra Lynn	25,776.98	C
H0001670 Lawrence, Patrick	19,889.75	C
H0001672 Seascape Phase 2	56,483.35	C
H0001674 Sunset Ridge PH 3 Unit 7	350,456.88	C
H0001675 SSPP 970 Bradley	42,505.46	C
H0001676 SSPP 963 Knapstad	47,808.89	C
H0001677 SSPP 958 - Gunnersen	15,127.52	C
H0001678 Puakea Ranch S/D	19,859.54	C
H0001679 Kang Farms	60,384.75	C
H0001680 Hilo Med. Ctr-Veterans Home	104,339.15	C
H0001681 SSPP 991 - Winterstrom	9,534.47	C
H0001682 Ulupono Center Phase 4	83,534.30	C
H0001683 CH Mamalahoa Hwy Impvt	59,834.11	C
H0001684 Claude Dickson	31,690.83	C
H0001685 Kaiulani Subdivision	31,127.39	C
H0001690 SSPP 969 - Dowling-Wu	69,510.91	C
H0001691 Robert Almeida	26,379.82	C
H0001692 SSPP 979 - Crusat	22,225.32	C
H0001693 SSPP 952 Piazzie	20,601.05	C
H0001694 Kamelamela, Sam	35,333.04	C
H0001696 AKONI PUKE HWY SEISMIC	65,414.95	C

H0001697 Grace Community Ch - UG	21,959.80	C
H0001698 SSPP Unit #978 - Brogan	11,211.45	C
H0001699 William Smith	29,035.97	C
H0001701 Frank Sensano	22,655.42	C
H0001703 Byron Ayoso	22,768.38	C
H0001704 SSPP Unit #967-Morrison	16,980.48	C
H0001705 Kahaopea Gardens	57,030.08	C
H0001706 Riki Nakano-Domen	16,578.62	C
H0001707 Hamakua Housing	26,878.79	C
H0001708 Ed Olsen SSPP #976	17,897.61	C
H0001711 Paauilo Lot 14	76,394.04	C
H0001712 LOKAHI MAKAI PH 5 S/D	24,382.52	C
H0001713 SSPP 974 Leleawi	61,281.98	C
H0001714 HUALALAI PARCEL 12 S/D	41,847.65	C
H0001716 John N. Seward	21,148.01	C
H0001719 Kurtistown Center	48,986.92	C
H0001720 UPLANDS 780 RESERVOIR	38,216.63	C
H0001721 Ka Milo @ Mauna Lani Inc 1	92,666.25	C
H0001723 Kaupulehu Potable Well 7	132,565.77	C
H0001724 Anae - Mauna Lani Tie	87,030.93	C
H0001727 Hualalai Village Phase 1B	53,216.43	C
H0001728 Hualalai Par 19	88,150.75	C
H0001729 Hualalai Par 16	56,111.86	C
H0001730 A.ULRYCH	35,843.42	C
H0001731 Parker Well #3 OH	21,805.97	C
H0001732 Parker Well #4 OH	40,591.26	C
H0001733 Aina Kuai Partners	26,425.20	C
H1000000 MINOR OH SERVICES	2,054,784.78	C
H1003000 MINOR UG SERVICES	1,391,961.40	C
H1007000 MINOR OTHER OH ADDITIONS	166,586.33	C
H1008000 MINOR OH EXTN BELOW 20001	3,009,183.92	C
H1013000 MINOR OH LINE CONVERSIONS	5,489.21	C
H1017000 MINOR UG EXTN BELOW 20001	362,035.31	C
H4750000 OTHER UG ADDITIONS	7,390.44	C
C Total	15,839,254.53	
H0000010 Battery Replacement	27,847.72	G
H0000176 Comm Site Air Conditioning	3,056.86	G
H0000188 Prod Dept PC Purchase	31,876.35	G
H0000295 Engr CADD Wrkstation Kona	13,794.05	G
H0000296 Engr CADD Wrkstation Hilo	13,104.47	G
H0000331 Heavy Trucks	1,283,688.74	G
H0000335 Cust Svcs PC Purchase	3,785.35	G
H0000548 MEDIUM TRUCKS	163,708.67	G
H0000549 SEDANS & LIGHT TRUCKS	517,579.07	G
H0000655 Keahole Land Reclassification/Rezoning	5,563.18	G
H0000677 SECURITY-SUB STATIONS	13,109.71	G
H0000678 Security Building and Facili	444,530.03	G
H0000687 Substation Fencing	6,589.96	G
H0000726 Waiau Plant Comm Link	105,455.47	G
H0000853 AMR - Turtle Meters & Eqpt	4,684.54	G
H0000923 PV Projects	2,500.00	G
H0001033 COH MW Upgrade-Hilo Base	1,245.17	G
H0001034 COH MW Upgrade-Kulani Cone	950.80	G
H0001035 COH MW Upgrade-Naalehu Past	7,305.69	G
H0001036 COH MW Upgrade-South Point	849.01	G
H0001037 COH MW Upgrade-Ohia Mill	3,555.08	G
H0001038 COH MW Upgrade-Hill Plant	2,634.94	G
H0001045 Network Server Upgrade	33,016.49	G
H0001131 Distribution PC Purchases	14,146.03	G
H0001195 MW Radio Repl-Kaumana - Puna	71.64	G
H0001204 Apollo Kamaoa to S PT MW	305,272.82	G

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H0001364 Hilo to Kaumana MW Upgrade	-	G
H0001412 Safety Office Renovation	298.09	G
H0001415 RECORDS MANAGEMENT	(290.08)	G
H0001563 Basestation Radio Repl	130,498.27	G
H0001573 Kaumana to Pohoiki MW Upgd	16,618.96	G
H0001575 2008 Class Load Study	127,714.28	G
H0001582 Kawaihae Supy	87,083.08	G
H0001583 Waika Supy	156,448.34	G
H0001617 ERT Mobile Collection	46,177.04	G
H0001686 Phone Switch Upgrade	37,762.61	G
H0001726 Tool & Equip - Admin Blanket	4,915.13	G
H1019000 MISC ENVIRON & OSHA PROJECTS	87,942.70	G
H4800000 MINOR COMMUNICATIONS FAC	46,773.16	G
H4818000 Delta Mobile Radio	32,030.93	G
H4900000 MINOR GENERAL PLANT	20,688.94	G
H5001000 PROD DEPT TOOLS & EQUIP	95,758.12	G
H5002000 CUST SVC DEPT TOOLS & EQUIP	554.51	G
H5003000 ENGR DEPT TOOLS & EQUIP	13,609.19	G
H5004000 DISTR DEPT TOOLS & EQUIP	90,571.92	G
H5005000 ADMIN DEPT TOOLS & EQUIP	(48.13)	G
H5101000 CUST SVC DEPT OFFICE FURN	14,438.50	G
H5102000 ACCTG DEPT OFFICE FURNIT	1,597.80	G
H5103000 ENGR DEPT OFFICE FURNIT	6,457.93	G
H5105000 PROD DEPT OFFICE FURNIT	6,644.60	G
H5126000 ENGR DEPT PC PURCHASE	44,683.70	G
H5129000 CUST SVC PC PURCHASE	30,884.24	G
G Total	4,109,735.67	
H0000109 Glenwood Conversion Ph3	(20.67)	R
H0000449 Waikoloa Pump Sub	7,252.12	R
H0000450 Waikoloa Pump 69KV	7,261.24	R
H0000520 Hill Plant Boiler Water Purification	53,480.74	R
H0000527 Hill Septic System	1,480.28	R
H0000613 Puna Boiler Controls Upgrade	-	R
H0000646 Hawi Basestation	889.42	R
H0000706 Puna Service Water System	215,170.52	R
H0000725 Queen K-Kaiwi-Palani 69KV	309,753.90	R
H0000832 Kailua SW Sta-19.2 MVAR Cap	3,333.20	R
H0000847 Pohoiki Sw Sta - Comm Tower	(263,026.00)	R
H0000878 Shipman Reboiler and Piping	(25,806.01)	R
H0000996 KAMAOA WIND FARM	140,229.35	R
H0001047 Waimea-Ouli Recon. 7300 Line	1,309,139.25	R
H0001051 CH KILAUEA CORRIDOR-SGNL	549.50	R
H0001066 Puna Septic System	1,480.28	R
H0001082 Hill WWT System Auto Upgrade	89,617.60	R
H0001149 Shipman Solid State Exciter	48,382.91	R
H0001159 Ship 3 Asset Optimization	230,022.26	R
H0001164 Puna Asset Optimization	134,178.82	R
H0001186 Ainaloa Sub Xfmr Upgrade	-	R
H0001187 Dist Relay Upgd-Line 6601	21,475.74	R
H0001189 Dist Relay Upgd-Puna	8,258.87	R
H0001190 Undervolt Loadshed-Block 2	1,339.10	R
H0001191 Undervolt Loadshed-Block 2	121,677.73	R
H0001192 Undervolt Loadshed-Block 3	149,183.23	R
H0001194 Undervolt Loadshed-Block 5	290.79	R
H0001203 Apollo Kamaoa Substation	570,148.98	R
H0001205 Apollo SCADA at Kamaoa	114,734.35	R
H0001207 Apollo Kilauea Relay Upgd	1,300.00	R
H0001208 Apollo Kealia Relay Upgd	2,785.17	R
H0001331 13.8KV Breakers in Kan Bldg	(5,173.99)	R
H0001334 Kuakini Sub 2 69kV Drop	6,236.65	R
H0001353 KPF Switch Upgrade	1,744.52	R

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H0001360 Kuakini Distr & Svcs	0.11	R
H0001368 Kaloko Unit #2 Transf	10,634.82	R
H0001369 Kaloko #2 12KV UG Getaway	407.81	R
H0001380 Keamuku Station Service	4,834.32	R
H0001384 Malift (2) for Hilo & Keahol	49,585.45	R
H0001391 Hill 6 Blr Condenser Retube	174,671.60	R
H0001394 Kea CT-2 Governor Controls	57,444.58	R
H0001454 Keahole SS Base Station	116.98	R
H0001456 Maint Shop Bridge Crane	12,293.82	R
H0001479 Laupahoehoe Transformer	115,170.29	R
H0001549 Waiau Intake Canal	1,814,603.36	R
H0001562 451 MHZ Radio Repl	93,418.47	R
H0001589 Hill 5 Control & 480V Cable	526,590.52	R
H0001646 CH DWS Pualani BP	114,911.07	R
H0001671 Anaehoomalu #1 Tsf Upgrade	545,912.18	R
H0001687 CT5 Acoustic Barrier	492,682.31	R
H0001688 Hill Plant Hydrazine System	110,153.37	R
H0001702 Waimea Well Recond	105,781.31	R
H1001000 PURCHASE NEW KWH METERS	557,311.92	R
H1002000 PURCH TSF AND RELATED EQ	5,486,228.18	R
H1006000 POLE LINE REPL & RELOC	2,313,301.35	R
H1009000 MINOR R/W SURVEY	10,550.00	R
H1010000 POWER PLANT ADDITIONS	330,513.35	R
H1011000 MINOR TRANS SUB ADDITIONS	42,692.71	R
H1012000 UNIT SUBSTATION PURCHASE	(40,915.47)	R
H1015000 MINOR CABLE REPLACEMENT	132,954.69	R
H1016000 MINOR DISTR SUB ADD	9,836.93	R
H1020000 POWER STATION ADDITIONS	62,062.73	R
H3126000 CT-4 COMBUSTION TURBINE	41,560.94	R
H3164000 CT-5 COMBUSTION TURBINE	(45,228.96)	R
H3404000 Substation Equip Repl	172,369.37	R
H3422000 SUBSTN BATTERY BANK REPL	57,280.18	R
H3981000 Naalehu Conversion	1,726.41	R
H0001021 RPL Kahili St.	6,179.49	R
H0001132 RPL TSF's Kona Highlands	681.18	R
H0001163 Puna Stm Turb Governr Replac	366,012.42	R
H0001180 Replace Old Service Conduct	437.97	R
H0001271 Keamuku CB6802 Replacement	2,708.16	R
H0001463 Kealakaha Bridge Replacement	326,124.94	R
H0001497 RPL Shoemaker	28,480.59	R
H0001530 RPL Secondary Komohana St.	3,274.62	R
H0001576 Keamuku CB6202 Replacement	97,753.71	R
H0001577 Keamuku CB7202 Replacement	107,408.16	R
H0001590 Puna Hopper Replacement	560,255.66	R
H0001616 AMR Turtle Meters - Rpl	104,042.22	R
R Total	18,222,185.67	
RNS Total		

Total 38,171,175.87

Hawaii Electric Light Company, Inc.
 2008 Plant Additions by categories

R=Reliability

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RS=REIP/Renewable Surcharge Recoverable

RNS=Renewable not Surcharge Recoverable

G=Other (General Plant)

H0000194 Waikoloa Village S/D 2-A-2 PH2	582.76	C
H0000444 Palani 12KV UG	41,371.37	C
H0000953 Delbert Cambra	736.63	C
H0000969 CHP Waikoloa Bch Marriott	-	C
H0000996 KAMAOA WIND FARM	176.07	C
H0001012 Fernandez-SSPP Unit #711	3,421.84	C
H0001055 Pahoa Marketplace	9,936.55	C
H0001251 Cardoza-LE Relocation	11,448.31	C
H0001309 Continental Pacific 2 & 4	138,964.89	C
H0001333 Kuakini Sub 2 12kV UG	(407.78)	
H0001461 Prince Kuhio Plaza-Woolworth	-	C
H0001508 Kailine Subdivision	21,020.91	C
H0001522 PUAKEA RANCH SUBDIVISION	3,069.73	C
H0001525 SSPP Unit 906 - Killiam	194.53	C
H0001541 Kona Vista S/D Unit II	(37.19)	C
H0001631 Pualani Estates S/D Phase 4	1,148.14	C
H0001632 Keopu Aina Property S/D OH	9,421.72	C
H0001640 SSPP 920 Butler	1,730.28	C
H0001643 SSPP 874- Hyland	228.45	C
H0001645 Hokulia Irrigation Well #3	139,920.84	C
H0001651 Hilo Airport-upgr. elec.	187.99	C
H0001658 Alii Drive Bypass Road	475.78	C
H0001665 Makalapua Business Center	36,049.05	C
H0001667 Carrisa, Antonio & Juanita	2,682.29	C
H0001673 Hokuli'a Resort-Phase 2	3,770,872.82	C
H0001674 Sunset Ridge PH 3 Unit 7	(92.30)	C
H0001676 SSPP 963 Knapstad	19,363.03	C
H0001677 SSPP 958 - Gunnerson	10,227.00	C
H0001682 Ulupono Center Phase 3	(7.75)	C
H0001690 SSPP 969 - Dowling-Wu	6,232.33	C
H0001695 KOLEAS AT HUALALAI	27,155.21	C
H0001696 AKONI PULE HWY SEISMIC	298.59	C
H0001699 William Smith	390.85	C
H0001701 Frank Sensano	691.93	C
H0001708 Ed Olsen SSPP #976	(554.89)	C
H0001710 Kaupulehu Lot 4A Ph 1A	1,411,927.41	C
H0001711 Paauilo Lot 14	1,106.99	C
H0001717 Berman Subdivision	49,816.31	C
H0001718 SSPP 994 Groeneweg	28,123.51	C
H0001720 UPLANDS 780 RESERVOIR	172.92	C
H0001722 SSPP 929 Lapa	35,876.12	C
H0001724 Anae - Mauna Lani Tie	(2,101.76)	C
H0001727 Hualalai Village Phase 1B	1,408.11	C
H0001728 Hualalai Par 19	6,116.57	C
H0001731 Parker Well #3 OH	6,909.88	C
H0001732 Parker Well #4 OH	10,374.42	C
H0001733 Aina Kual Partners	212.55	C
H0001735 Hualalai Vistas Subdivision	156,436.19	C
H0001738 CH KAIMINANI UG (U.A.)	146,171.14	C
H0001739 SSPP 973 Cameron	16,139.60	C
H0001740 Hokulia Comfort Station	14,524.68	C
H0001742 Waikoo Beach Dr Extn	849,245.19	C
H0001743 Kaupulehu Lot 4A Offsite	1,064,976.26	C
H0001819 KAUMANA COMMERCIAL S/D	84,645.65	C
H0001828 Sunset Ridge PH 3 Unit 8	184,908.31	C
H0001834 Makalapua Business Ctr Off	789,652.55	C
H0001837 Kona Commons Ph. 2 - Target	73,026.43	C
H0001838 Kona Commons Phase 2	123,668.27	C
H0001847 Lualai Ph 4	95,342.60	C
H0001848 Aguilar, Gene	77,756.63	C
H0001849 Continental Pacific #71	71,512.81	C
H0001850 ISLAND FIBER RING	427,597.89	C
H0001851 WAIKOLOA CESSPOOL	27,823.92	C

Hawaii Electric Light Company, Inc.
2008 Plant Additions by categories

H0001852 M&K OF KONA S/D	33,122.01	C
H0001853 Pacific Plantation Incr 1B	43,678.73	C
H0001854 Pruglo, Michael	103,397.93	C
H0001855 Kulaimano Acres S/D	25,848.80	C
H0001856 Gurnik, Dmitry	66,013.80	C
H0001858 Wung Subdivision	21,940.02	C
H0001859 SSPP #977 - Record	14,005.20	C
H0001863 SSPP 1018 Fryar	19,874.73	C
H0001864 SSPP 982 Fryar	88,339.09	C
H0001865 SSPP 996 Dzura	64,089.52	C
H0001866 SSPP 1027 Margaret Evans	23,557.94	C
H0001867 Bernard Kia	37,638.03	C
H0001868 SSPP Unit #987-Clovis	20,300.08	C
H0001869 SSPP 1015 Diana Varney	30,062.16	C
H0001870 Grace Comm Church	150,560.27	C
H0001871 Ka Milo @ Mauna Lani Inc 3	116,940.18	C
H0001872 SSPP #1008 - Zurita	6,843.00	C
H0001873 Waikoloa 1200N Tank RLOC	45,501.20	C
H0001874 SSPP #878 - Gillen	36,963.04	C
H0001875 SSPP 1014 Allen Jacobson	74,962.20	C
H0001876 SSPP #1011 - Aki	27,276.56	C
H0001877 SSPP Unit #960 - Robson	28,982.32	C
H0001878 Faith Oliveira	39,148.77	C
H0001879 Adam Long	25,882.19	C
H0001883 Hala Gardens	20,125.53	C
H0001885 Keopu Aina Property S/D UG	83,912.73	C
H0001887 Waikoloa SPS 4	32,552.21	C
H0001889 Erminia Evans	20,055.77	C
H0001890 SSPP Unit #1003-Swanson	28,264.89	C
H0001891 Holualoa S/D - Offsite	45,855.53	C
H0001892 John Dodds - LE	26,660.00	C
H0001894 Puainako Town Ctr. UG Reloc	24,709.54	C
H0001895 Puainako Town Ctr. OH Reloc	55,981.43	C
H0001896 Pahoa Fire Station	75,848.45	C
H0001897 Michael F. Divinski	30,552.04	C
H0001898 SSPP# 1030 - Carlson	21,892.28	C
H0001899 SSPP #1010 - Sheskey	14,337.45	C
H0001901 Hilton Resort Bldg 12	12,000.33	C
H0001902 Hilton Resort Op's Center	15,301.72	C
H0001904 Hilo Shopping Ctr. UG Reloc.	186,602.21	C
H0001906 DOWLING BARN	38,424.14	C
H0001908 SSPP 990 Johnson	21,693.65	C
H0001910 SSPP Unit #1038-Rabang	10,613.37	C
H0001911 Hershall Jenkins	15,775.76	C
H0001912 Kona View Estates Ph 1 S/D	680,359.99	C
H0001913 SSPP 844 Wensloff	26,960.64	C
H0001916 CH Pahoa Fire Station	25,761.95	C
H0001920 Richard Choy	22,684.35	C
H0001921 SSPP 1041 Michael Scott	25,035.72	C
H0001922 SSPP 993 Stephanie Carroll	39,205.16	C
H0001923 Parker Well #4	41,100.78	C
H0001924 Parker Well #5	22,151.83	C
H0001925 SSPP 856 Malachowski	41,134.32	C
H0001926 Wainani Estates S/D Phase 2	513,080.74	C
H0001927 Matsuoka Condos	72,729.89	C
H0001928 SSPP #998 - Belaski	25,810.27	C
H0001929 SSPP 981 Fryar	30,631.02	C
H0001931 SSPP 1032 Vergona	40,482.27	C
H0001932 Sobczak, Alan	23,671.72	C
H0001933 SSPP 1059 RIVERA	15,802.05	C
H0001935 Craig Lindner	66,570.01	C
H0001937 Hapuna Irrigation Well 5	64,506.62	C
H0001940 SSPP 1045 Fehr	29,319.00	C
H0001941 Verizon Wireless - Volcano	41,243.23	C
H0001943 SSPP Unit #1050-Champieux	17,845.85	C
H0001945 SSPP 957 Hartman	29,224.92	C
H0001949 Michael Merritt	35,405.19	C
H0001951 SSPP 1056 JEFFERY KIM	29,727.75	C
H0001961 Matson Navigation Co.	25,600.76	C

Hawaii Electric Light Company, Inc.
 2008 Plant Additions by categories

H0001964 Raymond Kobayashi	30,164.61	C
H1000000 MINOR OH SERVICES	1,655,191.39	C
H1003000 MINOR UG SERVICES	1,428,818.66	C
H1007000 MINOR OTHER OH ADDITIONS	(992,320.17)	C
H1008000 MINOR OH EXTN BELOW 20001	2,882,347.27	C
H1013000 MINOR OH LINE CONVERSIONS	67,098.93	C
H1017000 MINOR UG EXTN BELOW 20001	686,326.74	C
H4750000 OTHER UG ADDITIONS	27,408.87	C
C Total	19,707,440.26	
H0000010 Battery Replacement	37,226.03	G
H0000177 Supy Spares	(530.38)	G
H0000188 Prod Dept PC Purchase	22,528.61	G
H0000284 Palani Substation Lot	129,122.26	G
H0000295 Engr CADD Wrkstation Kona	30,387.55	G
H0000296 Engr CADD Wrkstation Hilo	30,493.77	G
H0000331 Heavy Trucks	3,941.40	G
H0000335 Cust Svcs PC Purchase	37.19	G
H0000462 HELCO Lan/Wan	79,931.77	G
H0000496 Palani Supy	126,785.96	G
H0000549 SEDANS & LIGHT TRUCKS	979,158.10	G
H0000643 Waimea Baseyard Security Pro	517.15	G
H0000672 Main Ofc Bldg Improvements	3,847.63	G
H0000677 SECURITY-SUB STATIONS	3,268.75	G
H0000678 Security Building and Facili	53,089.29	G
H0000679 Security Plants	15,321.01	G
H0000682 Dispatch Area Modify	99,607.84	G
H0000687 Substation Fencing	63,531.15	G
H0000726 Waiau Plant Comm Link	5,518.64	G
H0000788 Document Imaging System	12.00	G
H0001032 Acctg PC Replacements	18,939.81	G
H0001131 Distribution PC Purchases	74,277.27	G
H0001167 G-Tech Upgrade to FRAMME	49,817.11	G
H0001172 Kona Fire Sprinkler System	138,323.57	G
H0001378 Kailua to Kahaluu MW Upgd	257.83	G
H0001550 Meter Test Set	34,274.73	G
H0001551 Substation Storage Container	22,298.11	G
H0001555 Kanoelohua Paving	246,170.89	G
H0001562 451 MHZ Radio Repl	(4,422.73)	G
H0001575 2008 Class Load Study	233,110.36	G
H0001580 Kilauea - Naalehu MW	119,379.76	G
H0001581 Wialuku - Kanoelohua MW	29,917.28	G
H0001583 Waika Supy	(11.75)	G
H0001612 Hill Plant Exterior Lighting	37,847.09	G
H0001615 AMR-Maniniowale Turtle Proj	48,002.80	G
H0001686 Phone Switch Upgrade	453.62	G
H0001759 Keahole Shop Data Logger	25,117.69	G
H0001802 451 MHZ Radio Repl	79,790.04	G
H0001803 Basestation Radio Repl	126,261.17	G
H0001843 HELCO Server Upgrades	72,421.38	G
H0001845 Upgrade Survey Equipment	41,001.51	G
H0001861 Prod Chem Stor Containment	63,027.04	G
H0001900 Ouli - Huehue MW	139,306.18	G
H0001903 Kona Warehouse Fencing	23,701.04	G
H0001957 Company Computer Purchase	94,043.17	G
H0001959 Upgrade Survey Equip- Phase 3	40,922.84	G
H0001963 Upgrade Survey Equip- Phase3	41,103.76	G
H0001968 Main Ofc Bldg Improvements	32,853.91	G
H4800000 MINOR COMMUNICATIONS FAC	79,270.81	G
H4818000 Delta Mobile Radio	20,599.19	G
H4900000 MINOR GENERAL PLANT	31,075.59	G
H5001000 PROD DEPT TOOLS & EQUIP	39,616.49	G
H5003000 ENGR DEPT TOOLS & EQUIP	5,236.73	G
H5004000 DISTR DEPT TOOLS & EQUIP	232,183.32	G
H5063000 Helco Wan	301.77	G
H5105000 PROD DEPT OFFICE FURNIT	309.17	G
H5126000 ENGR DEPT PC PURCHASE	35,378.81	G
H5253000 CADD Microstation Util	-	G

Hawaii Electric Light Company, Inc.
 2008 Plant Additions by categories

H9999000 Total	(1,816.71)	G
G Total	3,954,136.37	
H0000442 Palani Substation	1,839,113.25	R
H0000443 Palani 69KV Drop	44,286.64	R
H0000453 HRD 34 KV Line & Drop	(2,641.24)	R
H0000595 Discov Harbor 12KV Recond	393,138.35	R
H0000725 Queen K-Kaiwi-Palani 69KV	735,276.87	R
H0000983 Shipman Controls-Fld Wlring	411,462.82	R
H0001004 RPR Reconductor 7201	3,127,896.66	R
H0001016 Continental Pacific - RLOC	19,341.23	R
H0001047 Waimea-Ouia Recon. 7300 Line	332,494.37	R
H0001063 Kan to Shipman Fiber	302,474.79	R
H0001156 Hill 5 Asset Optimization	244,377.73	R
H0001157 Hill 6 Asset Optimization	754,976.22	R
H0001160 Ship 4 Asset Optimization	91,113.31	R
H0001164 Puna Asset Optimization	39,687.99	R
H0001177 Pole Restoration	3,566.19	R
H0001180 Replace Old Service Conduct	50,710.90	R
H0001187 Dist Relay Upgd-Line 6601	25.00	R
H0001368 Kaloko Unit #2 Transf	(21,666.50)	R
H0001374 Kan SS 13kV Saf Imp	18,390.76	R
H0001459 CT2/4/5 Safety Barriers	111,749.22	R
H0001561 Hill Plant Fiber Run	37,581.28	R
H0001574 Kilauea Sub Xfrm Upgrade	106,554.89	R
H0001650 CH Captain - Cook Hwy Improv	18,547.45	R
H0001671 Anaehoomalu #1 Tsf Upgrade	1,130.04	R
H0001687 CT5 Acoustic Barrier	137,531.29	R
H0001715 Kamuela Transformer	801,818.76	R
H0001793 D21/D22/D23 Breaker Replace	87,539.73	R
H0001801 KPF Switch Upgrade - 2009	30,361.80	R
H0001812 Kamuela Sub 12KV	45,167.65	R
H0001813 New Saddle Road Alignment	140,698.66	R
H0001857 Honokaa Well	23,869.77	R
H0001860 Keahole WT Expansion	661,137.86	R
H0001905 Kamaoa Fault Recorder	65,803.28	R
H0001919 E. HAWAII REG. SORT STATION	85,238.53	R
H0001930 CH DPW Pahala Well #3	36,906.66	R
H0001934 Waikoloa Sub Tie Line	68,553.98	R
H0001969 Kaumana CB6202	59,070.58	R
H0001970 Puna 34KV CB and Transformer	147,863.08	R
H0001971 Kiilae Riser Pole	22,233.66	R
H1001000 PURCHASE NEW KWH METERS	439,915.41	R
H1002000 PURCH TSF AND RELATED EQ	4,628,850.95	R
H1006000 POLE LINE REPL & RELOC	3,600,941.27	R
H1010000 POWER PLANT ADDITIONS	(82,541.15)	R
H1011000 MINOR TRANS SUB ADDITIONS	8,661.10	R
H1012000 UNIT SUBSTATION PURCHASE	1,099,157.56	R
H1015000 MINOR CABLE REPLACEMENT	205,220.23	R
H1016000 MINOR DISTR SUB ADD	55,444.16	R
H1019000 MISC ENVIRON & OSHA PROJECTS	35,590.24	R
H1020000 POWER STATION ADDITIONS	15,947.53	R
H0001376 Kan Unit 2 Tranf Repl	352,387.44	R
H0001557 Repl Primary Disconnect	32,249.16	R
H0001794 Replace CCVT	13,001.29	R
H0001798 ME Switchgear Replace	65,597.38	R
H0001800 RTU Replacement 5310-511	55,713.38	R
H0001807 Honokaa CB3201 Replacement	106,738.96	R
H0001880 Anaehoomalu Switch Repl	30,527.07	R
H0001881 RPL ROBERT TRUBELL	50,376.24	R
H0001918 AMR Turtle Meters - Rpl	291,773.41	R
H3404000 Substation Equip Repl	312,403.27	R
H3422000 SUBSTN BATTERY BANK REPL	46,325.65	R
R Total	22,437,664.06	
RNS Total		
Total	46,099,240.69	

Hawaii Electric Light Company, Inc.
 2009 Plant Additions by categories

R=Reliability

C=Customer Addition

RS=REIP/Renewable Surcharge Recoverable

RNS=Renewable not Surcharge Recoverable

G=Other (General Plant)

Proj	Project	Plant Addn 2009	Category
Almoto06	Makuu-Halona S/D		C
Almoto07	Aina Lea S/D Off Site	385,574.22	C
Almoto08	SH DOT Keaau-Pahoa Rd Reloc		C
Almoto09	Lanakila Housing Ph IIIA	-	C
CNishi19	Villas At Nani Mau		C
CVana07	Kiilae Farm Subdivision PH1	365,442.97	C
CVana09	Villages of Lai O' Pua Ph 5	464,483.74	C
CVana11	Laiopua Village 4 Off-Site		C
CVana12	Kona Highlands Undergrounдин	284,459.47	C
CVana15	Kai Maluna Condo	128,206.32	C
CVana16	Lanihau Shopping Center Ph2		C
Glchin13	Discov Harbr 12KV Recnd Ph.2	310,687.03	C
Glchin14	Discov Harbr 12KV Recnd Ph.3		C
Glchin15	Makuu Offsite Water System		C
Glchin16	Punahoa Mauka Sbdvn.	117,185.37	C
H0000993	PTA Upgrades Army RFP		C
H0001370	Waikoloa Beach Drive 1		C
H0001586	Kano #4 12KV UG Getaway	94,083.68	C
H0001827	Kohala Ranch Well #3	(184,511.00)	C
H0001835	Laiopua Connector Road	620,869.00	
H0001836	Shores at Kohanaiki	877,953.00	C
H0001837	Kona Commons Ph. 2 - Target	60,227.70	C
H0001839	Laiopua Village Phase 4	559,377.74	C
H0001841	Alii Palms Subdivision	148,724.02	C
H0001899	SSPP #1010 - Sheskey	190,932.33	C
H0007000	Unforseeable OH Cust Req	2,294,666.00	C
H0011000	Unforseeable UG Cust Req	2,803,709.00	C
H1007000	MINOR OTHER OH ADDITIONS	335,376.32	C
H1008000	MINOR OH EXTN BELOW 20000	2,188,386.58	C
H1013000	MINOR OH LINE CONVERSIONS	44,089.23	C
H1017000	MINOR UG EXTN BELOW 20000	1,349,775.51	C
H3521000	SSPP Requests	666,001.89	C
H4750000	OTHER UG ADDITIONS	7,759.45	C
MThom05	HOVR REBUILD PH1		C
MThom06	REM Kona Highlands PMH		C
MThom08	HOVR REBUILD PH3		C
MThom09	HOVR REBUILD PH4		C
MThom10	HOVR REBUILD PH5		C
SLevin06	Wehilani Inc. 2		C
SLevin07	Shores at Kohanaiki Offsite	496,000.00	C
SLevin09	Waikoloa Pump 12KV	187,435.55	C
H0000350	Hokukano Sub	967,510.67	C
H0000351	Hokukano 69kv Drop	70,208.63	C
H0000352	Hokukano 12kv UG	44,326.83	C
H0000441	Hokukano 12KV UG Offsite	1,007,726.45	C
LRoger17	Kealia Station Service		C
LRoger18	Mauna Lani Circuit Sw		C
LRoger20	Waikoloa Heights Substn		C
SLevin08	Waikoloa #2 OH 12kv offsite		C
H1000000	MINOR OH SERVICES	1,618,654.16	C
H1003000	MINOR UG SERVICES	1,114,315.55	C
H0001806	Mahukona Dev - Surety Kohala	900,000.00	

Hawaii Electric Light Company, Inc.
 2009 Plant Additions by categories

BMatsu11	Royal Hwn-Wright Rd Recon	C
C Total	20,519,637.41	
H0001862	Fleet GPS units	25,000.00 G
EHulih01	Papaaloa Sub Land Acquisition	350,000.04 G
EHulih02	Queen K QLT Easement	375,000.00 G
EHulih04	Kealia Sub Land Acquisition	G
H0001615	AMR-Maniniowale Turtle Proj	85,035.00 G
H0001617	ERT Mobile Collection	85,035.00 G
H0001917	HELC-Advance Metering Infra	G
H0001918	AMR Turtle Meters - Rpl	56,690.01 G
H1009000	MINOR RW SURVEY	9,996.00 G
H0000010	Battery Replacement	21,997.83 G
H0000687	Substation Fencing	120,000.00 G
LRoger09	Waimea Fencing Improvement	48,570.18 G
H0000176	Comm Site Air Conditioning	9,999.96 G
H0001001	Kanoelehua Emerg Gen	181,310.00 G
H4800000	MINOR COMMUNICATIONS FAC	59,529.67 G
H4818000	Delta Mobile Radio	17,917.77 G
LRoger02	Waimea Comm Facility	G
LRoger03	Host Park Supy	G
LRoger04	Keahole Airport Supy	G
LRoger06	Cptn Cook - Ohia Mill MW	185,519.62 G
LRoger07	Kealia - Captain Cook MW	185,519.62 G
LRoger14	Hill Plant Comm Facility	G
LRoger15	Humuula Comm Facility	G
LRoger19	Mauna Lani - Huehue MW	G
H0000334	Cust Svcs Ofc Furniture	2,834.50 G
H0001414	Office furniture & equipment	31,746.40 G
H5101000	CUST SVC DEPT OFFICE FURN	6,802.80 G
H5102000	ACCTG DEPT OFFICE FURNIT	8,616.00 G
H5103000	ENGR DEPT OFFICE FURNIT	5,921.70 G
H5104000	DISTR DEPT OFFICE FURNIT	32,802.98 G
H5105000	PROD DEPT OFFICE FURNIT	12,471.85 G
H5106000	ADMIN DEPT OFFICE FURNIT	5,338.00 G
GSanti02	GIS Hardware	39,683.00 G
GSanti03	GIS Software	85,035.00 G
GSanti05	Company Computer Purchase	120,290.00 G
GSanti06	Enterprise Backup System	142,132.15 G
H0000188	Prod Dept PC Purchase	61,212.68 G
H0000229	PC Tools	11,844.34 G
H0000295	Engr CADD Wrkstation Kona	11,844.34 G
H0000296	Engr CADD Wrkstation Hilo	25,662.75 G
H0000335	Cust Svcs PC Purchase	16,635.00 G
H0000462	HELCO Lan/Wan	35,533.03 G
H0000469	Computer Purchase-Admin	11,007.00 G
H0001131	Distribution PC Purchases	G
H0001367	Router Upgrade	63,169.84 G
H0001842	Engineering CADD server upgrd	G
H0001843	HELCO Server Upgrades	53,299.58 G
H5125000	ACCTG DEPT PC PURCHASE	2,704.00 G
H5126000	ENGR DEPT PC PURCHASE	33,558.98 G
H5129000	CUST SVC PC PURCHASE	22,767.25 G
Pres01	Computer Upgrades	- G
Pres02	Computer Purchases	- G
BCoope01	Upgrade Survey Equip- Phase2	49.00 G
BCoope02	Upgrade Survey Equip- Phase3	G
Dist08	Trouble Shtr Analysis Tools	20,408.40 G
Dist09	50 KW Generator Trailer	35,147.80 G
H0000333	Cust Svcs Tools & Equip	6,802.80 G
H0000924	Field Service Handhelds	G

Hawaii Electric Light Company, Inc.
 2009 Plant Additions by categories

H0001588	Extd Shop High Bay & OH Cran	350,000.00	G
H0001760	Keahole Shop Milling Machine	25,000.00	G
H0001762	Keahole Shop Bridge Crane	205,000.00	G
H5000000	ACCTG DEPT TOOLS & EQUIP	3,279.90	G
H5001000	PROD DEPT TOOLS & EQUIP	124,718.05	G
H5002000	CUST SVC DEPT TOOLS & EQUIP	5,215.48	G
H5003000	ENGR DEPT TOOLS & EQUIP	12,380.28	G
H5004000	DISTR DEPT TOOLS & EQUIP	373,226.64	G
H5005000	ADMIN DEPT TOOLS & EQUIP	11,338.00	G
TSmith01	Physical Evidence Storage	40,023.19	G
TSmith02	Multi-Gas Detectors	2,812.00	G
TSmith03	Hearing Conservation Program	-	G
TSmith04	Safety Misc. Tools & Equipm	5,036.00	G
TSmith05	Respiratory Program	-	G
H0001754	Hilo Fuel Terminal/Dsl Tank	200,000.00	G
H0001100	Annual SCADA Upgrades	535,000.00	G
H0001761	Keahole Plotter	25,000.00	G
H0001593	Hill Plant Women's Restroom	129,627.28	G
H1019000	MISC ENVIRON & OSHA PROJECTS	72,562.09	G
Dist06	Office Area Modification	30,000.00	G
ES04	Energy Efficiency Improvements	193,089.46	G
H0000672	Main Ofc Bldg Improvements	-	G
H0001351	Technical Roof Extension	50,000.04	G
H0001553	Covered Parking Area - HDH	-	G
H0001555	Kanoelehua Paving	195,000.00	G
H0001559	Kona 30 day PCB Storage	30,000.00	G
H0001560	Waimea 30 day PCB Storage	30,000.00	G
H0001622	Production Office Expansion	-	G
H0001747	Keahole Containment Bldg	200,000.00	G
H0001751	Puna Emergency Stairs	50,000.00	G
H0001752	Hill Emergency Stairs	50,000.00	G
H0001753	Shop Restrm/Breakrm Renovatn	200,000.00	G
H0001833	HWW Office Construction	50,000.00	
H0001952	Security System Upgrades	131,000.00	
H4900000	MINOR GENERAL PLANT	33,531.18	G
NKawab02	HR Office Renovation - Capet	8,000.00	G
NKawab03	Admin Office Renovation	2,200.00	G
H0000331	Heavy Trucks	1,750,000.00	G
H0000549	Sedans & Light Trucks	303,000.00	G
G Total		8,148,481.46	
BMaeda08	Pepeekeo Conv Mauka Ph 1	R	
BMaeda09	Pepeekeo Conv Makai Ph 2	R	
BMaeda10	Pepeekeo Conv South Ph 3	R	
BMatsu12	Kapoho Vacation Anchor REPL	R	
CNishi06	Orchid Isle- Mt View Tie	R	
CVana13	Queen K & Henry St. Crossing	R	
H0000791	Hawi Conv Ph 4	370,976.23	R
H0000928	Kapoho Vacation Land Rpl	66,324.62	R
H0001177	Pole Restoration	150,000.00	R
H0001180	Replace Old Service Conduct	150,000.00	R
H0001352	Distribution Automation	56,690.05	R
H0001366	Ainako Conversion Phase 2	184,913.98	R
H0001557	Repl Primary Disconnect	44,608.83	R
H0001570	RPL Kona Palisades Ph 4	194,379.61	R
H0001578	Kam Devt Fault Interrupters	154,895.87	R
H0001585	Kano Distr #4 69KV Drop	36,078.60	R
H0001795	Replace Lightening Arrestors	26,077.45	R
H0001798	ME Switchgear Replace	121,514.67	R
H0001820	Aina Lea Water Pump	-	R
H0001830	CH PALANI RD. RELOCATION	211,738.86	R

Hawaii Electric Light Company, Inc.
2009 Plant Additions by categories

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ATTACHMENT 2
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H1006000 POLE LINE REPL & RELOC	2,789,226.00	R
H1015000 MINOR CABLE REPLACEMENT	97,381.09	R
Kamiga03 Pahala #1 12KV UG Getaway	188,501.53	R
KWhite06 Transformer Vault Replacemen	250,000.00	R
EHulih03 7200 Line Easements	2,595,000.00	R
EHulih05 6800 Line Easements		R
H1001000 PURCHASE NEW KWH METERS	401,249.23	R
CChen01 Hakalau Sub Upgrade		R
CChen02 Honomu Transformer Upgrade	50,190.86	R
CChen03 Kanoe Breaker Fail Relays	321,678.94	R
CChen04 Kanoelehua #3 Ckt Switcher		R
CChen05 Kaumana Bkr Failure Relays		R
CChen06 Mt. View Transformer Upgrade		R
CChen09 Puna Station Service		R
CChen24 Kamuela Supy/UFLS	95,229.86	R
CChen36 Shipman-Kan Bkup Rlys		R
Dist02 KPF Switch Remote Upgrade	46,518.49	R
Dist03 KPF Switch Replacement	123,000.00	R
H0000052 Huehue Transformer Upgrade		R
H0000920 Kaloko Sub Tsf Upgrade		R
H0001564 Waimea Switchgear	69,161.75	R
H0001579 Waimea Grounding Improvement		R
H0001584 Kano #4 Distr Sub	314,980.25	R
H0001624 Puuwaawaa Sub Upgrade		R
H0001794 Replace CCVT	51,021.00	R
H0001808 Puna Sub Xfmr Upgrade	31,997.79	R
H0001822 Kuakini #1 Sub Upgrade	51,846.00	
H1012000 UNIT SUBSTATION PURCHASE	1,432,448.24	R
H1016000 MINOR DISTR SUB ADD	244,389.94	R
H3404000 Substation Equip Repl	636,561.00	R
H3422000 SUBSTN BATTERY BANK REPL	59,223.64	R
Kamiga01 Pahala #1 Substation	377,503.03	R
Kamiga02 Pahala #1 69KV Drop	95,018.04	R
Kamiga05 Anaehoomalu #2 Sub Upgrade	49,596.57	R
Kamiga14 Waikoloa #1 Sub Upgrade		R
LRoger11 Anaeho'omalu Circuit Sw	239,505.94	R
LRoger12 Kaumana CB6201 Replacement	92,360.74	R
LRoger13 Kilauea CB6601 Replacement	92,309.95	R
MBecht01 Keamuku-Puu Huluhulu 6800		R
H1002000 PURCH TSF AND RELATED EQ	4,673,581.53	R
Dist01 Radio Console Replacements	25,000.00	R
H0001375 N Kohala Fiber Loop	46,193.81	R
H0001800 RTU Replacement 5310-510	214,558.69	R
H0001802 450 MHZ Radio Repl	131,273.95	R
H0001613 Puueo Cathodic Protection	924,403.28	R
H0001623 Waiau Stream Flow Measuremnt	100,000.00	R
H0001654 Waiau Cathodic Protection	562,997.91	R
H0001383 Keahole ST-7 Engineering	91,772,616.00	R
CChen07 Puna 13.8KV Ground Source		R
DHeinz71 Hill 5 Transformer Replace		R
DHeinz72 CT 4 Zero Time		R
DHeinz79 Fuel Tank Level Conv (Ship)	100,000.00	R
DHeinz80 Fuel Tank Level Conv (Hill)		R
DHeinz81 Fuel Tank Level Conv(Puna)		R
DHeinz82 Fuel Tank Level Conv (Keah)		R
DHeinz83 Fuel Tank Level Conv (Waimea)		R
DHeinz84 Fuel Tank Level Conv (Kan)		R
H0001155 Waimea EMD Noise Abatement	350,000.00	R
H0001460 CT2 Black Start	258,044.54	R
H0001758 CT1 Controls Upgrade/Exciter	300,000.00	R

Hawaii Electric Light Company, Inc.
 2009 Plant Additions by categories

H0001793 D21/D22/D23 Breaker Replace	100,000.00	R
H3171000 Kawaihae Fuel Terminal	1,384,120.00	R
DHeinz08 Puna Retube Furnace	2,000,000.00	R
DHeinz09 Puna Retube Condenser	200,000.00	R
DHeinz13 S3 Steam Path Cylinder Rpr		R
DHeinz15 S4 Steam Path Cylinder Rpr		R
DHeinz18 Puna Ash Conditioner	100,000.00	R
DHeinz34 Puna Water Induction Mods	75,000.00	R
DHeinz35 Shipman Water Induction Mods		R
DHeinz47 Wailuku Stream Flow Measurmn	100,000.00	R
DHeinz48 H5 & H6 13.8KV Switchgear		R
DHeinz49 Replace H6 2400V & 480V		R
DHeinz70 Puna Fire Pump		R
DHeinz73 Hill 6 MCC Replace		R
DHeinz74 Puna MCC Replace		R
DHeinz75 Hill 6 2400V Replacement		R
DHeinz76 Shipman 4 HP Heater Rpl		R
DHeinz77 Shipman 3 Heater Replacement		R
DHeinz78 Shipman Demineralizer RPL		R
H0000698 Predictive Maint Program	187,500.12	R
H0001150 Shipman Propane Ignitors	60,000.00	R
H0001156 Hill 5 Asset Optimization	104,700.00	R
H0001157 Hill 6 Asset Optimization	104,700.00	R
H0001159 Ship 3 Asset Optimization		R
H0001160 Ship 4 Asset Optimization		R
H0001164 Puna Asset Optimization	75,000.00	R
H0001589 Hill 5 Control & 480V Cable	500,000.00	R
H0001591 Hill Water Induction Mods	75,000.00	R
H0001592 Hill Plant Alternate Access		R
H0001688 Hill Plant Hydrazine System	30,000.00	R
H0001744 Ship Plant Hydrazine System	100,000.00	R
H0001745 Puna Plant Hydrazine System	100,000.00	R
H0001746 H6FW Tube Bundle Replmnt	200,000.00	R
H0001750 Puna Turbine Upgrade		R
H0001755 Puna Generator Protection	100,000.00	R
H0001756 Hill 6 Generator Protection	100,000.00	R
H1010000 POWER PLANT ADDITIONS	128,833.74	R
H1020000 POWER STATION ADDITIONS	106,708.86	R
CChen08 Puna Breaker Fail Relay		R
Dist07 Repl 69V Porceln Strn Insul	84,999.96	R
H0001817 CH KAWAILANI ST RELOC		R
H1011000 MINOR TRANS SUB ADDITIONS	43,275.03	R
H1014000 MINOR TRANS LINE ADDITIONS	26,750.53	R
KWhite09 3300 Line Rebuild		R
LRoger01 Honokaa Relay Upgrade		R
LRoger05 Waimea Relay Updgrade		R
LRoger08 Keamuku Relay Upgrade		R
LRoger10 Waikoloa KPF Modification	35,679.08	R
MBecht02 Puu Huluhulu-Puu WaaWaa 6800		R
MBecht03 Puu Waa Waa- Huehue 6800		R
R Total	118,145,035.68	
H0001228 PV Replacements	-	RNS
RNS Total	-	
GSanti01 Geographical Information System Development		VOID
GSanti04 GIS Services		VOID
Total	146,813,154.55	

Hawaii Electric Light Company, Inc.
 2010 Plant Additions by categories

R=Reliability

C=Customer Addition

RS=REIP/Renewable Surcharge Recoverable

RNS=Renewable not Surcharge Recoverable

G=Other (General Plant)

Proj	Project	Plant Addn 2010	Category
Almoto	Makuu-Halona S/D	483,120.37	C
Almoto	Aina Lea S/D Off Site		C
Almoto	SH DOT Keaau-Pahoa Rd Reloc		C
Almoto	Lanakila Housing Ph IIIA		C
CNishi	Villas At Nani Mau	129,244.37	C
CVana	Kiilae Farm Subdivision PH1		C
CVana	Villages of Lai O' Pua Ph 5		C
CVana	Laiopua Village 4 Off-Site	501,333.79	C
CVana	Kona Highlands Undergrounдин		C
CVana	Kai Maluna Condo		C
CVana	Lanihau Shopping Center Ph2		C
Glchin	Discov Harbr 12KV Recnd Ph.2		C
Glchin	Discov Harbr 12KV Recnd Ph.3	325,884.23	C
Glchin	Makuu Offsite Water System	425,229.96	C
Glchin	Punahoa Mauka Sbdvn.		C
H0000	PTA Upgrades Army RFP	126,327.26	C
H0001	Waikoloa Beach Drive 1	213,449.05	C
H0001	Kano #4 12KV UG Getaway		C
H0001	Kohala Ranch Well #3		C
H0001	Shores at Kohanaiki		C
H0001	Kona Commons Ph. 2 - Target		C
H0001	Laiopua Village Phase 4		C
H0001	Alii Palms Subdivision		C
H0001	SSPP #1010 - Sheskey		C
H0007	Unforseeable OH Cust Req	1,443,257.12	C
H0011	Unforseeable UG Cust Req	2,086,222.00	C
H1007	MINOR OTHER OH ADDITIONS	1,443,257.00	C
H1008	MINOR OH EXTN BELOW 20000	2,350,448.84	C
H1013	MINOR OH LINE CONVERSIONS	47,186.47	C
H1017	MINOR UG EXTN BELOW 20000	1,380,051.55	C
H3521	SSPP Requests	720,624.40	C
H4750	OTHER UG ADDITIONS	8,418.24	C
MThor	HOVR REBUILD PH1	241,654.00	C
MThor	REM Kona Highlands PMH		C
MThor	HOVR REBUILD PH3		C
MThor	HOVR REBUILD PH4		C
MThor	HOVR REBUILD PH5		C
SLevin	Wehilani Inc. 2	911,627.26	C
SLevin	Shores at Kohanaiki Offsite		C
SLevin	Waikoloa Pump 12KV		C
H0000	Hokukano Sub		C
H0000	Hokukano 69kv Drop		C
H0000	Hokukano 12kv UG		C
H0000	Hokukano 12KV UG Offsite		C
LRoge	Kealia Station Service		C
LRoge	Mauna Lani Circuit Sw	251,255.04	C
LRoge	Waikoloa Heights Substn		C
SLevin	Waikoloa #2 OH 12kv offsite		C
H1000	MINOR OH SERVICES	1,829,287.56	C
H1003	MINOR UG SERVICES	1,260,858.96	C
H0001	Waikoloa Unit #2 UG	78,870.00	C
BMatsi	Royal Hwn-Wright Rd Recon		C

Hawaii Electric Light Company, Inc.
2010 Plant Additions by categories

C Total	16,257,607.47	
H0001: Fleet GPS units	2,000.00	G
EHulihl Papaaloa Sub Land Acquisition		G
EHulihl Queen K QLT Easement		G
EHulihl Kealia Sub Land Acquisition	400,000.08	G
H0001: AMR-Maniniowale Turtle Proj	89,002.50	G
H0001: ERT Mble Collection	-	G
H0001: HELC-Advance Metering Infra	97,776.00	G
H0001: AMR Turtle Meters - Rpl	59,335.05	G
H1009: MINOR R/W SURVEY	9,996.00	G
H0000: Battery Replacement	22,996.97	G
H0000: Substation Fencing	120,000.00	G
LRoge Waimea Fencing Improvement		G
H0000 Comm Site Air Conditioning	9,999.60	G
H0001: Kanoelehua Emerg Gen		G
H4800: MINOR COMMUNICATIONS FAC	63,940.04	G
H4818: Delta Mobile Radio	18,897.90	G
LRoge Waimea Comm Facility		G
LRoge Host Park Supy	101,493.65	G
LRoge Keahole Airport Supy	95,229.86	G
LRoge Cptn Cook - Ohia Mill MW		G
LRoge Kealia - Captain Cook MW		G
LRoge Hill Plant Comm Facility	96,883.42	G
LRoge Humuula Comm Facility	52,055.50	G
LRoge Mauna Lani - Huehue MW		G
H0000: Cust Svcs Ofc Furniture	2,966.75	G
H0001: Office furniture & equipment		G
H5101: CUST SVC DEPT OFFICE FURN	7,120.20	G
H5102: ACCTG DEPT OFFICE FURNIT	4,416.00	G
H5103: ENGR DEPT OFFICE FURNIT	6,197.99	G
H5104: DISTR DEPT OFFICE FURNIT	33,120.38	G
H5105: PROD DEPT OFFICE FURNIT	14,240.40	G
H5106: ADMIN DEPT OFFICE FURNIT	29,668.00	G
GSanti GIS Hardware	29,667.50	G
GSanti GIS Software	65,268.50	G
GSanti Company Computer Purchase	35,124.75	G
GSanti Enterprise Backup System	148,763.64	G
H0000 Prod Dept PC Purchase	66,794.60	G
H0000: PC Tools	8,264.65	G
H0000: Engr CADD Wrkstation Kona	25,827.03	G
H0000: Engr CADD Wrkstation Hilo	39,257.08	G
H0000: Cust Svcs PC Purchase	23,832.67	G
H0000: HELCO Lan/Wan	60,951.77	G
H0000: Computer Purchase-Admin	11,867.00	G
H0001 Distribution PC Purchases	45,094.65	G
H0001: Router Upgrade		G
H0001: Engeering CADD server upgrd		G
H0001: HELCO Server Upgrades	59,918.68	G
H5125: ACCTG DEPT PC PURCHASE	9,493.60	G
H5126: ENGR DEPT PC PURCHASE	18,595.47	G
H5129: CUST SVC PC PURCHASE	23,832.67	G
Pres01 Computer Upgrades	-	G
Pres02 Computer Purchases	-	G
BCoop Upgrade Survey Equip- Phase2		G
BCoop Upgrade Survey Equip- Phase3	39,161.10	G
Dist08 Trouble Shter Analysis Tools	21,360.60	G
Dist09 50 KW Generator Trailer		G
H0000: Cust Svcs Tools & Equip	7,120.20	G
H0000: Field Service Handhelds	207,672.50	G
H0001: Extd Shop High Bay & OH Cran		G

Hawaii Electric Light Company, Inc.
 2010 Plant Additions by categories

H0001 Keahole Shop Milling Machine	G
H0001 Keahole Shop Bridge Crane	G
H5000 ACCTG DEPT TOOLS & EQUIP	3,377.70 G
H5001 PROD DEPT TOOLS & EQUIP	136,470.50 G
H5002 CUST SVC DEPT TOOLS & EQUIP	5,458.82 G
H5003 ENGR DEPT TOOLS & EQUIP	5,933.97 G
H5004 DISTR DEPT TOOLS & EQUIP	326,157.99 G
H5005 ADMIN DEPT TOOLS & EQUIP	11,867.00 G
TSmith Physical Evidence Storage	G
TSmith Multi-Gas Detectors	G
TSmith Hearing Conservation Program	G
TSmith Safety Misc. Tools & Equipm	11,866.95 G
TSmith Respiratory Program	G
H0001 Hilo Fuel Terminal/Dsl Tank	G
H0001 Annual SCADA Upgrades	35,000.04 G
H0001 Keahole Plotter	G
H0001 Hill Plant Women s Restroom	G
H1019 MISC ENVIRON & OSHA PROJECTS	76,830.41 G
Dist06 Office Area Modification	30,000.00 G
ES04 Energy Efficiency Improvements	203,547.12 G
H0000 Main Ofc Bldg Improvements	- G
H0001 Technical Roof Extension	99,999.96 G
H0001 Covered Parking Area - HDH	140,000.00 G
H0001 Kanoelehua Paving	G
H0001 Kona 30 day PCB Storage	G
H0001 Waimea 30 day PCB Storage	G
H0001 Production Office Expansion	108,000.00 G
H0001 Keahole Containment Bldg	G
H0001 Puna Emergency Stairs	G
H0001 Hill Emergency Stairs	G
H0001 Shop Restrm/Breakrm Renovatn	G
H4900 MINOR GENERAL PLANT	25,424.41 G
NKawa HR Office Renovation - Capet	G
NKawa Admin Office Renovation	G
H0000 Heavy Trucks	1,160,000.00 G
H0000 Sedans & Light Trucks	585,000.00 G
G Total	5,250,139.82
BMaed Pepeekeo Conv Mauka Ph 1	115,997.96 R
BMaed Pepeekeo Conv Makai Ph 2	29,949.77 R
BMaed Pepeekeo Conv South Ph 3	R
BMatsi Kapoho Vacation Anchor REPL	R
CNishi Orchid Isle- Mt View Tie	59,933.09 R
CVana Queen K & Henry St. Crossing	R
H0000 Hawi Conv Ph 4	R
H0000 Kapoho Vacation Land Rpl	R
H0001 Pole Restoration	150,000.00 R
H0001 Replace Old Service Conduct	150,000.00 R
H0001 Distribution Automation	59,335.05 R
H0001 Ainako Conversion Phase 2	R
H0001 Repl Primary Disconnect	46,984.26 R
H0001 RPL Kona Palisades Ph 4	R
H0001 Kam Devt Fault Interrupters	R
H0001 Kano Distr #4 69KV Drop	R
H0001 Replace Lightening Arrestors	27,294.15 R
H0001 ME Switchgear Replace	125,417.46 R
H0001 Aina Lea Water Pump	268,576.73 R
H0001 CH PALANI RD. RELOCATION	R
H1006 POLE LINE REPL & RELOC	2,872,255.00 R
H1015 MINOR CABLE REPLACEMENT	105,611.40 R
Kamig Pahala #1 12KV UG Getaway	R

Hawaii Electric Light Company, Inc.
 2010 Plant Additions by categories

KWhite Transformer Vault Replacemen	250,000.00	R
EHulih 7200 Line Easements		R
EHulih 6800 Line Easements		R
H1001 PURCHASE NEW KWH METERS	424,463.39	R
CChen Hakalau Sub Upgrade		R
CChen Honomu Transformer Upgrade		R
CChen Kanoe Breaker Fail Relays		R
CChen Kanoelehua #3 Ckt Switcher		R
CChen Kaumana Bkr Failure Relays		R
CChen Mt. View Transformer Upgrade	50,000.00	R
CChen Puna Station Service		R
CChen Kamuela Supy/UFLS		R
CChen Shipman-Kan Bkup Rlys		R
Dist02 KPF Switch Remote Upgrade	47,308.83	R
Dist03 KPF Switch Replacement	123,000.00	R
H00001 Huehue Transformer Upgrade	53,673.22	R
H00001 Kaloko Sub Tsf Upgrade		R
H0001 Waimea Switchgear		R
H0001 Waimea Grounding Improvement	102,388.57	R
H0001 Kano #4 Distr Sub		R
H0001 Puuwaawaa Sub Upgrade	48,691.46	R
H0001 Replace CCVT	53,401.50	R
H0001 Puna Sub Xfmr Upgrade		R
H0001 Waikoloa Unit #2 Transf	780,778.00	
H1012 UNIT SUBSTATION PURCHASE	648,468.49	R
H1016 MINOR DISTR SUB ADD	263,633.25	R
H3404 Substation Equip Repl	643,405.00	R
H3422 SUBSTN BATTERY BANK REPL	62,443.83	R
Kamig: Pahala #1 Substation		R
Kamig: Pahala #1 69KV Drop		R
Kamig: Anaehoomalu #2 Sub Upgrade		R
Kamig: Waikoloa #1 Sub Upgrade		R
LRoger Anaeho'omalu Circuit Sw		R
LRoger Kaumana CB6201 Replacement		R
LRoger Kilauea CB6601 Replacement		R
MBech Keamuku-Puu Huluhulu 6800		R
H1002 PURCH TSF AND RELATED EQ	4,997,896.35	R
Dist01 Radio Console Replacements	25,000.00	R
H0001 N Kohala Fiber Loop		R
H0001 RTU Replacement 5310-510	229,130.16	R
H0001 450 MHZ Radio Repl		R
H0001 Puueo Cathodic Protection		R
H0001 Waiau Stream Flow Measuremnt		R
H0001 Waiau Cathodic Protection		R
H0001 Keahole ST-7 Engineering	15,167.85	R
CChen Puna 13.8KV Ground Source		R
DHeinz Hill 5 Transformer Replace	100,000.00	R
DHeinz CT 4 Zero Time		R
DHeinz Fuel Tank Level Conv (Ship)		R
DHeinz Fuel Tank Level Conv (Hill)	100,000.00	R
DHeinz Fuel Tank Level Conv(Puna)		R
DHeinz Fuel Tank Level Conv (Keah)		R
DHeinz Fuel Tank Level Conv (Waimea		R
DHeinz Fuel Tank Level Conv (Kan)		R
H0001 Waimea EMD Noise Abatement		R
H0001 CT2 Black Start		R
H0001 CT1 Controls Upgrade/Exciter		R
H0001 D21/D22/D23 Breaker Replace		R
H3171 Kawaihae Fuel Terminal	246,000.00	R
DHeinz Puna Retube Furnace		R

Hawaii Electric Light Company, Inc.
 2010 Plant Additions by categories

DHeinz Puna Retube Condenser	R
DHeinz S3 Steam Path Cylinder Rpr	4,000,000.00 R
DHeinz S4 Steam Path Cylinder Rpr	R
DHeinz Puna Ash Conditioner	R
DHeinz Puna Water Induction Mods	R
DHeinz Shipman Water Induction Mods	75,000.00 R
DHeinz Wailuku Stream Flow Measurmn	R
DHeinz H5 & H6 13.8KV Switchgear	500,000.00 R
DHeinz Replace H6 2400V & 480V	500,000.00 R
DHeinz Puna Fire Pump	600,000.00 R
DHeinz Hill 6 MCC Replace	R
DHeinz Puna MCC Replace	R
DHeinz Hill 6 2400V Replacement	R
DHeinz Shipman 4 HP Heater Rpl	R
DHeinz Shipman 3 Heater Replacement	R
DHeinz Shipman Demineralizer RPL	R
H0000 Predictive Maint Program	187,500.12 R
H0001 Shipman Propane Ignitors	R
H0001 Hill 5 Asset Optimization	104,700.00 R
H0001 Hill 6 Asset Optimization	104,700.00 R
H0001 Ship 3 Asset Optimization	R
H0001 Ship 4 Asset Optimization	R
H0001 Puna Asset Optimization	75,000.00 R
H0001 Hill 5 Control & 480V Cable	R
H0001 Hill Water Induction Mods	R
H0001 Hill Plant Alternate Access	250,000.00 R
H0001 Hill Plant Hydrazine System	R
H0001 Ship Plant Hydrazine System	R
H0001 Puna Plant Hydrazine System	R
H0001 H6FW Tube Bundle Replmnt	R
H0001 Puna Turbine Upgrade	8,800,344.00 R
H0001 Puna Generator Protection	R
H0001 Hill 6 Generator Protection	R
H1010 POWER PLANT ADDITIONS	140,973.98 R
H1020 POWER STATION ADDITIONS	106,708.86 R
CChen Puna Breaker Fail Relay	R
Dist07 Repl 69V Porceln Strn Insul	84,999.96 R
H0001 CH KAWAILANI ST RELOC	258,575.14 R
H1011 MINOR TRANS SUB ADDITIONS	46,748.18 R
H1014 MINOR TRANS LINE ADDITIONS	28,756.92 R
CT-2 Hot Gas	2,054,240.00
H5 Turbine Rotor	9,244,080.00
Boiler Turndown	2,567,800.00
Brackish Water Well	1,027,120.00
KWhite 3300 Line Rebuild	R
LRoge Honokaa Relay Upgrade	61,977.86 R
LRoge Waimea Relay Updgrade	61,977.86 R
LRoge Keamuku Relay Upgrade	82,249.98 R
LRoge Waikoloa KPF Modification	R
MBech Puu Huluhulu-Puu WaaWaa 6800	R
MBech Puu Waa Waa- Huehue 6800	R
R Total	44,239,657.63
H0001 PV Replacements	26,107.40 RNS
RNS Total	26,107.40
GSanti Geographical Information System Development	VOID
GSanti GIS Services	VOID
	65,773,512.32

Hawaii Electric Light Company, Inc.
 2011 Plant Additions by categories

R=Reliability

C=Customer Addition

RS=REIP/Renewable Surcharge Recoverable

RNS=Renewable not Surchage Recoverable

G=Other (General Plant)

Proj	Project	Plant Addn 2011	Category
Almoto06	Makuu-Halona S/D		C
Almoto07	Aina Lea S/D Off Site		C
Almoto08	SH DOT Keaau-Pahoa Rd Reloc		C
Almoto09	Lanakila Housing Ph IIIA		C
CNishi19	Villas At Nani Mau		C
CVana07	Kiilae Farm Subdivision PH1		C
CVana09	Villages of Lai O' Pua Ph 5		C
CVana11	Laiopua Village 4 Off-Site		C
CVana12	Kona Highlands Undergrounind		C
CVana15	Kai Maluna Condo		C
CVana16	Lanihau Shopping Center Ph2		C
Glchin13	Discov Harbr 12KV Recnd Ph.2		C
Glchin14	Discov Harbr 12KV Recnd Ph.3		C
Glchin15	Makuu Offsite Water System		C
Glchin16	Punahoa Mauka Sbdvn.		C
H0000993	PTA Upgrades Army RFP		C
H0001370	Waikoloa Beach Drive 1		C
H0001586	Kano #4 12KV UG Getaway		C
H0001827	Kohala Ranch Well #3		C
H0001836	Shores at Kohanaiki		C
H0001837	Kona Commons Ph. 2 - Target		C
H0001839	Laiopua Village Phase 4		C
H0001841	Alii Palms Subdivision		C
H0001899	SSPP #1010 - Sheskey		C
H0007000	Unforseeable OH Cust Req	1,446,724.00	C
H0011000	Unforseeable UG Cust Req	2,090,771.00	C
H1007000	MINOR OTHER OH ADDITIONS	348,204.03	C
H1008000	MINOR OH EXTN BELOW 20000	2,485,491.03	C
H1013000	MINOR OH LINE CONVERSIONS	47,350.59	C
H1017000	MINOR UG EXTN BELOW 20000	1,536,639.31	C
H3521000	SSPP Requests	722,192.27	C
H4750000	OTHER UG ADDITIONS	8,447.57	C
MThorn05	HOVR REBUILD PH1	249,238.00	C
MThorn06	REM Kona Highlands PMH		C
MThorn08	HOVR REBUILD PH3		C
MThorn09	HOVR REBUILD PH4		C
MThorn10	HOVR REBUILD PH5		C
SLevin06	Wehilani Inc. 2		C
SLevin07	Shores at Kohanaiki Offsite		C
SLevin09	Waikoloa Pump 12KV		C
H0000350	Hokukano Sub		C
H0000351	Hokukano 69kv Drop		C
H0000352	Hokukano 12kv UG		C
H0000441	Hokukano 12KV UG Offsite		C
LRoger17	Kealia Station Service	148,222.60	C
LRoger18	Mauna Lani Circuit Sw		C
LRoger20	Waikoloa Heights Substn	1,308,225.70	C
SLevin08	Waikoloa #2 OH 12kv offsite		C
H1000000	MINOR OH SERVICES	1,860,394.60	C
H1003000	MINOR UG SERVICES	1,278,276.69	C
BMatsu11	Royal Hwn-Wright Rd Recon	399,299.19	C

Hawaii Electric Light Company, Inc.
 2011 Plant Additions by categories

C Total	13,929,476.58	
H0001862 Fleet GPS units	2,000.00	G
EHulih01 Papaaloa Sub Land Acquisition		G
EHulih02 Queen K QLT Easement		G
EHulih04 Kealia Sub Land Acquisition		G
H0001615 AMR-Maniniowale Turtle Proj	89,002.50	G
H0001617 ERT Moble Collection	-	G
H0001917 HELC-Advance Metering Infra	62,028.00	G
H0001918 AMR Turtle Meters - Rpl	-	G
H1009000 MINOR R/W SURVEY	9,996.00	G
H0000010 Battery Replacement	23,094.58	G
H0000687 Substation Fencing	120,000.00	G
LRoger09 Waimea Fencing Improvement		G
H0000176 Comm Site Air Conditioning	9,999.60	G
H0001001 Kanoelehua Emerg Gen		G
H4800000 MINOR COMMUNICATIONS FAC	63,267.14	G
H4818000 Delta Mobile Radio	18,938.90	G
LRoger02 Waimea Comm Facility	102,794.87	G
LRoger03 Host Park Supy		G
LRoger04 Keahole Airport Supy		G
LRoger06 Cptn Cook - Ohia Mill MW		G
LRoger07 Kealia - Captain Cook MW		G
LRoger14 Hill Plant Comm Facility		G
LRoger15 Humuula Comm Facility		G
LRoger19 Mauna Lani - Huehue MW	138,600.67	G
H0000334 Cust Svcs Ofc Furniture	5,933.50	G
H0001414 Office furniture & equipment		G
H5101000 CUST SVC DEPT OFFICE FURN	7,120.20	G
H5102000 ACCTG DEPT OFFICE FURNIT	4,373.20	G
H5103000 ENGR DEPT OFFICE FURNIT	6,197.99	G
H5104000 DISTR DEPT OFFICE FURNIT	33,120.38	G
H5105000 PROD DEPT OFFICE FURNIT	15,426.63	G
H5106000 ADMIN DEPT OFFICE FURNIT	11,867.00	G
GSanti02 GIS Hardware	11,867.00	G
GSanti03 GIS Software	53,401.50	G
GSanti05 Company Computer Purchase	89,878.04	G
GSanti06 Enterprise Backup System	-	G
H0000188 Prod Dept PC Purchase	69,521.63	G
H0000229 PC Tools	8,264.65	G
H0000295 Engr CADD Wrkstation Kona	18,595.45	G
H0000296 Engr CADD Wrkstation Hilo	25,827.02	G
H0000335 Cust Svcs PC Purchase	35,821.27	G
H0000462 HELCO Lan/Wan	64,051.01	G
H0000469 Computer Purchase-Admin	17,800.50	G
H0001131 Distribution PC Purchases	45,094.65	G
H0001367 Router Upgrade		G
H0001842 Engeering CADD server upgrd	20,661.61	G
H0001843 HELCO Server Upgrades	61,984.85	G
H5125000 ACCTG DEPT PC PURCHASE	8,746.40	G
H5126000 ENGR DEPT PC PURCHASE	68,183.34	G
H5129000 CUST SVC PC PURCHASE	23,835.60	G
Pres01 Computer Upgrades	-	G
Pres02 Computer Purchases	-	G
BCoope01 Upgrade Survey Equip- Phase2		G
BCoope02 Upgrade Survey Equip- Phase3		G
Dist08 Trouble Shter Analysis Tools	21,360.60	G
Dist09 50 KW Generator Trailer		G
H0000333 Cust Svcs Tools & Equip	7,120.20	G
H0000924 Field Service Handhelds		G

Hawaii Electric Light Company, Inc.
 2011 Plant Additions by categories

H0001588	Extd Shop High Bay & OH Cran	G
H0001760	Keahole Shop Milling Machine	G
H0001762	Keahole Shop Bridge Crane	G
H5000000	ACCTG DEPT TOOLS & EQUIP	3,377.70 G
H5001000	PROD DEPT TOOLS & EQUIP	142,404.00 G
H5002000	CUST SVC DEPT TOOLS & EQUIP	5,458.82 G
H5003000	ENGR DEPT TOOLS & EQUIP	5,933.97 G
H5004000	DISTR DEPT TOOLS & EQUIP	556,190.72 G
H5005000	ADMIN DEPT TOOLS & EQUIP	11,867.00 G
TSmith01	Physical Evidence Storage	G
TSmith02	Multi-Gas Detectors	G
TSmith03	Hearing Conservation Program	G
TSmith04	Safety Misc. Tools & Equipm	11,866.95 G
TSmith05	Respiratory Program	G
H0001754	Hilo Fuel Terminal/Dsl Tank	G
H0001100	Annual SCADA Upgrades	39,999.96 G
H0001761	Keahole Plotter	G
H0001593	Hill Plant Women's Restroom	G
H1019000	MISC ENVIRON & OSHA PROJECTS	78,964.63 G
Dist06	Office Area Modification	30,000.00 G
ES04	Energy Efficiency Improvements	208,582.55 G
H0000672	Main Ofc Bldg Improvements	- G
H0001351	Technical Roof Extension	- G
H0001553	Covered Parking Area - HDH	G
H0001555	Kanoelehua Paving	G
H0001559	Kona 30 day PCB Storage	G
H0001560	Waimea 30 day PCB Storage	G
H0001622	Production Office Expansion	G
H0001747	Keahole Containment Bldg	G
H0001751	Puna Emergency Stairs	G
H0001752	Hill Emergency Stairs	G
H0001753	Shop Restrm/Breakrm Renovatn	G
H4900000	MINOR GENERAL PLANT	25,494.15 G
NKawab02	HR Office Renovation - Capet	G
NKawab03	Admin Office Renovation	G
H0000331	Heavy Trucks	1,085,000.00 G
	KOCC Building Expansion	2,054,240.00
H0000549	Sedans & Light Trucks	495,000.00 G
G Total		6,130,156.93
BMaeda08	Pepeekeo Conv Mauka Ph 1	R
BMaeda09	Pepeekeo Conv Makai Ph 2	R
BMaeda10	Pepeekeo Conv South Ph 3	301,449.71 R
BMatsu12	Kapoho Vacation Anchor REPL	R
CNishi06	Orchid Isle- Mt View Tie	R
CVana13	Queen K & Henry St. Crossing	R
H0000791	Hawi Conv Ph 4	R
H0000928	Kapoho Vacation Land Rpl	R
H0001177	Pole Restoration	150,000.00 R
H0001180	Replace Old Service Conduct	150,000.00 R
H0001352	Distribution Automation	59,335.05 R
H0001366	Ainako Conversion Phase 2	R
H0001557	Repl Primary Disconnect	47,081.86 R
H0001570	RPL Kona Palisades Ph 4	R
H0001578	Kam Devt Fault Interrupters	R
H0001585	Kano Distr #4 69KV Drop	R
H0001795	Replace Lightening Arrestors	27,294.15 R
H0001798	ME Switchgear Replace	125,747.95 R
H0001820	Aina Lea Water Pump	R
H0001830	CH PALANI RD. RELOCATION	R

Hawaii Electric Light Company, Inc.
 2011 Plant Additions by categories

H1006000	POLE LINE REPL & RELOC	2,956,776.00	R
H1015000	MINOR CABLE REPLACEMENT	105,621.56	R
Kamiga03	Pahala #1 12KV UG Getaway		R
KWhite06	Transformer Vault Replacemen	250,000.00	R
EHulih03	7200 Line Easements		R
EHulih05	6800 Line Easements		R
H1001000	PURCHASE NEW KWH METERS	429,853.72	R
CChen01	Hakalau Sub Upgrade		R
CChen02	Honomu Transformer Upgrade		R
CChen03	Kanoe Breaker Fail Relays		R
CChen04	Kanoelehua #3 Ckt Switcher		R
CChen05	Kaumana Bkr Failure Relays	100,000.00	R
CChen06	Mt. View Transformer Upgrade		R
CChen09	Puna Station Service		R
CChen24	Kamuela Supy/UFLS		R
CChen36	Shipman-Kan Bkup Rlys		R
Dist02	KPF Switch Remote Upgrade	47,618.73	R
Dist03	KPF Switch Replacement	123,000.00	R
H0000052	Huehue Transformer Upgrade		R
H0000920	Kaloko Sub Tsf Upgrade	37,278.55	R
H0001564	Waimea Switchgear		R
H0001579	Waimea Grounding Improvement		R
H0001584	Kano #4 Distr Sub		R
H0001624	Puuwaawaa Sub Upgrade		R
H0001794	Replace CCVT	53,401.50	R
H0001808	Puna Sub Xfmr Upgrade		R
H1012000	UNIT SUBSTATION PURCHASE	648,694.55	R
H1016000	MINOR DISTR SUB ADD	266,509.03	R
H3404000	Substation Equip Repl	643,756.00	R
H3422000	SUBSTN BATTERY BANK REPL	62,605.85	R
Kamiga01	Pahala #1 Substation		R
Kamiga02	Pahala #1 69KV Drop		R
Kamiga05	Anaeoomalu #2 Sub Upgrade		R
Kamiga14	Waikoloa #1 Sub Upgrade		R
LRoger11	Anaeo'omalu Circuit Sw		R
LRoger12	Kaumana CB6201 Replacement		R
LRoger13	Kilauea CB6601 Replacement		R
MBecht01	Keamuku-Puu Huluhulu 6800		R
H1002000	PURCH TSF AND RELATED EQ	5,155,466.59	R
Dist01	Radio Console Replacements	-	R
H0001375	N Kohala Fiber Loop		R
H0001800	RTU Replacement 5310-510	232,383.81	R
H0001802	450 MHZ Radio Repl		R
H0001613	Puueo Cathodic Protection		R
H0001623	Waiau Stream Flow Measuremnt		R
H0001654	Waiau Cathodic Protection		R
H0001383	Keahole ST-7 Engineering		R
CChen07	Puna 13.8KV Ground Source		R
DHeinz71	Hill 5 Transformer Replace		R
DHeinz72	CT 4 Zero Time		R
DHeinz79	Fuel Tank Level Conv (Ship)		R
DHeinz80	Fuel Tank Level Conv (Hill)		R
DHeinz81	Fuel Tank Level Conv(Puna)		R
DHeinz82	Fuel Tank Level Conv (Keah)	100,000.00	R
DHeinz83	Fuel Tank Level Conv (Waimea		R
DHeinz84	Fuel Tank Level Conv (Kan)		R
H0001155	Waimea EMD Noise Abatement		R
H0001460	CT2 Black Start		R
H0001758	CT1 Controls Upgrade/Exciter		R

Hawaii Electric Light Company, Inc.
 2011 Plant Additions by categories

H0001793 D21/D22/D23 Breaker Replace		R
H6 Turbine Rotor	9,244,080.00	
H3171000 Kawaihae Fuel Terminal		R
DHeinz08 Puna Retube Furnace		R
DHeinz09 Puna Retube Condenser		R
DHeinz13 S3 Steam Path Cylinder Rpr		R
DHeinz15 S4 Steam Path Cylinder Rpr		R
DHeinz18 Puna Ash Conditioner		R
DHeinz34 Puna Water Induction Mods		R
DHeinz35 Shipman Water Induction Mods		R
DHeinz47 Wailuku Stream Flow Measurmn		R
DHeinz48 H5 & H6 13.8KV Switchgear		R
DHeinz49 Replace H6 2400V & 480V		R
DHeinz70 Puna Fire Pump		R
DHeinz73 Hill 6 MCC Replace	250,000.00	R
DHeinz74 Puna MCC Replace		R
DHeinz75 Hill 6 2400V Replacement	200,000.00	R
DHeinz76 Shipman 4 HP Heater Rpl		R
DHeinz77 Shipman 3 Heater Replacement		R
DHeinz78 Shipman Demineralizer RPL		R
H0000698 Predictive Maint Program	187,500.12	R
H0001150 Shipman Propane Ignitors		R
H0001156 Hill 5 Asset Optimization	104,700.00	R
H0001157 Hill 6 Asset Optimization	104,700.00	R
H0001159 Ship 3 Asset Optimization		R
H0001160 Ship 4 Asset Optimization		R
H0001164 Puna Asset Optimization	75,000.00	R
H0001589 Hill 5 Control & 480V Cable		R
H0001591 Hill Water Induction Mods		R
H0001592 Hill Plant Alternate Access		R
H0001688 Hill Plant Hydrazine System		R
H0001744 Ship Plant Hydrazine System		R
H0001745 Puna Plant Hydrazine System		R
H0001746 H6FW Tube Bundle Replmnt		R
H0001750 Puna Turbine Upgrade		R
H0001755 Puna Generator Protection		R
H0001756 Hill 6 Generator Protection		R
H1010000 POWER PLANT ADDITIONS	147,103.33	R
H1020000 POWER STATION ADDITIONS	106,708.86	R
CChen08 Puna Breaker Fail Relay	100,000.00	R
Dist07 Repl 69V Porceln Strn Insul	84,999.96	R
H0001817 CH KAWAILANI ST RELOC		R
H1011000 MINOR TRANS SUB ADDITIONS	46,150.66	R
H1014000 MINOR TRANS LINE ADDITIONS	28,450.33	R
KWhite09 3300 Line Rebuild		R
LRoger01 Honokaa Relay Upgrade		R
LRoger05 Waimea Relay Updgrade		R
LRoger08 Keamuku Relay Upgrade		R
LRoger10 Waikoloa KPF Modification		R
MBecht02 Puu Huluhulu-Puu WaaWaa 6800	8,400,000.00	R
MBecht03 Puu Waa Waa- Huehue 6800		R
R Total	31,153,267.87	
H0001228 PV Replacements	26,107.40	RNS
RNS Total	26,107.40	
GSanti01 Geographical Information System Development		VOID
GSanti04 GIS Services		VOID
	51,239,008.78	

Hawaii Electric Light Company, Inc.
 2012 Plant Additions by categories

R=Reliability

C=Customer Addition

RS=REIP/Renewable Surcharge Recoverable

RNS=Renewable not Surcharge Recoverable

G=Other (General Plant)

Proj	Project	Plant Addn 2012	Category
Almoto06	Makuu-Halona S/D		C
Almoto07	Aina Lea S/D Off Site		C
Almoto08	SH DOT Keau-Paho Rd Reloc	594,013.32	C
Almoto09	Lanakila Housing Ph IIIA		C
CNishi19	Villas At Nani Mau		C
CVana07	Kiilae Farm Subdivision PH1		C
CVana09	Villages of Lai O' Pua Ph 5		C
CVana11	Laiopua Village 4 Off-Site		C
CVana12	Kona Highlands Undergroun		C
CVana15	Kai Maluna Condo		C
CVana16	Lanihau Shopping Center Ph2		C
Glchin13	Discov Harbr 12KV Recnd Ph.2		C
Glchin14	Discov Harbr 12KV Recnd Ph.3		C
Glchin15	Makuu Offsite Water System		C
Glchin16	Punahoa Mauka Sbdvn.		C
H0000993	PTA Upgrades Army RFP		C
H0001370	Waikoloa Beach Drive 1		C
H0001586	Kano #4 12KV UG Getaway		C
H0001827	Kohala Ranch Well #3		C
H0001836	Shores at Kohanaiki		C
H0001837	Kona Commons Ph. 2 - Target		C
H0001839	Laiopua Village Phase 4		C
H0001841	Alii Palms Subdivision		C
H0001899	SSPP #1010 - Sheskey		C
H0007000	Unforseeable OH Cust Req	1,450,170.00	C
H0011000	Unforseeable UG Cust Req	2,095,274.00	C
H1007000	MINOR OTHER OH ADDITIONS	348,573.73	C
H1008000	MINOR OH EXTN BELOW 20000	2,519,504.53	C
H1013000	MINOR OH LINE CONVERSIONS	47,510.00	C
H1017000	MINOR UG EXTN BELOW 20000	1,541,488.48	C
H3521000	SSPP Requests	723,734.04	C
H4750000	OTHER UG ADDITIONS	8,490.76	C
MThorn05	HOVR REBUILD PH1	249,652.00	C
MThorn06	REM Kona Highlands PMH		C
MThorn08	HOVR REBUILD PH3		C
MThorn09	HOVR REBUILD PH4		C
MThorn10	HOVR REBUILD PH5		C
SLevin06	Wehilani Inc. 2		C
SLevin07	Shores at Kohanaiki Offsite		C
SLevin09	Waikoloa Pump 12KV		C
H0000350	Hokukano Sub		C
H0000351	Hokukano 69kv Drop		C
H0000352	Hokukano 12kv UG		C
H0000441	Hokukano 12KV UG Offsite		C
LRoger17	Kealia Station Service		C
LRoger18	Mauna Lani Circuit Sw		C
LRoger20	Waikoloa Heights Substn		C
SLevin08	Waikoloa #2 OH 12kv offsite		C
H1000000	MINOR OH SERVICES	1,891,444.70	C
H1003000	MINOR UG SERVICES	1,295,770.40	C
BMatsu11	Royal Hwn-Wright Rd Recon		C
C Total		12,765,625.96	
H0001862	Fleet GPS units	2,000.00	G

Hawaii Electric Light Company, Inc.
 2012 Plant Additions by categories

EHulih01	Papaaloa Sub Land Acquisition	G
EHulih02	Queen K QLT Easement	G
EHulih04	Kealia Sub Land Acquisition	G
H0001615	AMR-Maniniowale Turtle Proj	- G
H0001617	ERT Moble Collection	- G
H0001917	HELC-Advance Metering Infra	G
H0001918	AMR Turtle Meters - Rpl	- G
H1009000	MINOR R/W SURVEY	9,999.96 G
H0000010	Battery Replacement	24,182.98 G
H0000687	Substation Fencing	120,000.00 G
LRoger09	Waimea Fencing Improvement	G
H0000176	Comm Site Air Conditioning	9,999.60 G
H0001001	Kanoelehua Emerg Gen	G
H4800000	MINOR COMMUNICATIONS FAC	63,897.10 G
H4818000	Delta Mobile Radio	18,979.80 G
LRoger02	Waimea Comm Facility	G
LRoger03	Host Park Supy	G
LRoger04	Keahole Airport Supy	G
LRoger06	Cptn Cook - Ohia Mill MW	G
LRoger07	Kealia - Captain Cook MW	G
LRoger14	Hill Plant Comm Facility	G
LRoger15	Humuula Comm Facility	G
LRoger19	Mauna Lani - Huehue MW	G
H0000334	Cust Svcs Ofc Furniture	5,933.50 G
H0001414	Office furniture & equipment	G
H5101000	CUST SVC DEPT OFFICE FURNIT	7,120.20 G
H5102000	ACCTG DEPT OFFICE FURNIT	4,373.20 G
H5103000	ENGR DEPT OFFICE FURNIT	6,197.99 G
H5104000	DISTR DEPT OFFICE FURNIT	33,120.81 G
H5105000	PROD DEPT OFFICE FURNIT	17,800.50 G
H5106000	ADMIN DEPT OFFICE FURNIT	11,867.00 G
GSanti02	GIS Hardware	41,534.50 G
GSanti03	GIS Software	59,335.00 G
GSanti05	Company Computer Purchase	314,056.56 G
GSanti06	Enterprise Backup System	41,323.23 G
H0000188	Prod Dept PC Purchase	72,247.53 G
H0000229	PC Tools	8,264.65 G
H0000295	Engr CADD Wrkstation Kona	12,396.98 G
H0000296	Engr CADD Wrkstation Hilo	26,860.10 G
H0000335	Cust Svcs PC Purchase	35,719.67 G
H0000462	HELCO Lan/Wan	68,183.34 G
H0000469	Computer Purchase-Admin	17,800.50 G
H0001131	Distribution PC Purchases	45,094.65 G
H0001367	Router Upgrade	G
H0001842	Engineering CADD server upgrd	G
H0001843	HELCO Server Upgrades	169,425.28 G
H5125000	ACCTG DEPT PC PURCHASE	8,746.40 G
H5126000	ENGR DEPT PC PURCHASE	36,157.84 G
H5129000	CUST SVC PC PURCHASE	23,838.65 G
Pres01	Computer Upgrades	5,933.50 G
Pres02	Computer Purchases	5,933.50 G
BCoope01	Upgrade Survey Equip- Phase2	G
BCoope02	Upgrade Survey Equip- Phase3	G
Dist08	Trouble Shter Analysis Tools	21,360.60 G
Dist09	50 KW Generator Trailer	G
H0000333	Cust Svcs Tools & Equip	7,120.20 G
H0000924	Field Service Handhelds	G
H0001588	Extd Shop High Bay & OH Cran	G
H0001760	Keahole Shop Milling Machine	G
H0001762	Keahole Shop Bridge Crane	G
H5000000	ACCTG DEPT TOOLS & EQUIP	3,377.70 G

Hawaii Electric Light Company, Inc.
 2012 Plant Additions by categories

H5001000 PROD DEPT TOOLS & EQUIP	148,337.55	G
H5002000 CUST SVC DEPT TOOLS & EQUIP	5,458.82	G
H5003000 ENGR DEPT TOOLS & EQUIP	5,933.97	G
H5004000 DISTR DEPT TOOLS & EQUIP	318,850.67	G
H5005000 ADMIN DEPT TOOLS & EQUIP	11,867.00	G
TSmith01 Physical Evidence Storage		G
TSmith02 Multi-Gas Detectors		G
TSmith03 Hearing Conservation Program		G
TSmith04 Safety Misc. Tools & Equipm	18,393.76	G
TSmith05 Respiratory Program	11,866.95	G
H0001754 Hilo Fuel Terminal/Dsl Tank		G
H0001100 Annual SCADA Upgrades	93,415.95	G
H0001761 Keahole Plotter		G
H0001593 Hill Plant Women s Restroom		G
H1019000 MISC ENVIRON & OSHA PROJECTS	83,232.94	G
Dist06 Office Area Modification	30,000.00	G
ES04 Energy Efficiency Improvements	213,811.64	G
H0000672 Main Ofc Bldg Improvements	-	G
H0001351 Technical Roof Extension	-	G
H0001553 Covered Parking Area - HDH		G
H0001555 Kanoelehua Paving		G
H0001559 Kona 30 day PCB Storage		G
H0001560 Waimea 30 day PCB Storage		G
H0001622 Production Office Expansion		G
H0001747 Keahole Containment Bldg		G
H0001751 Puna Emergency Stairs		G
H0001752 Hill Emergency Stairs		G
H0001753 Shop Restrm/Breakrm Renovatn		G
H4900000 MINOR GENERAL PLANT	25,567.02	G
NKawab02 HR Office Renovation - Capet		G
NKawab03 Admin Office Renovation		G
H0000331 Heavy Trucks	1,230,000.00	G
H0000549 Sedans & Light Trucks	625,000.00	G
G Total	4,181,919.29	
BMaeda08 Pepeekeo Conv Mauka Ph 1		R
BMaeda09 Pepeekeo Conv Makai Ph 2		R
BMaeda10 Pepeekeo Conv South Ph 3		R
BMatsu12 Kapoho Vacation Anchor REPL		R
CNishi06 Orchid Isle- Mt View Tie		R
CVana13 Queen K & Henry St. Crossing		R
H0000791 Hawi Conv Ph 4		R
H0000928 Kapoho Vacation Land Rpl		R
H0001177 Pole Restoration	150,000.00	R
H0001180 Replace Old Service Conduct	150,000.00	R
H0001352 Distribution Automation	59,335.05	R
H0001366 Ainako Conversion Phase 2		R
H0001557 Repl Primary Disconnect	47,179.30	R
H0001570 RPL Kona Palisades Ph 4		R
H0001578 Kam Devt Fault Interrupters		R
H0001585 Kano Distr #4 69KV Drop		R
H0001795 Replace Lightening Arrestors	27,294.15	R
H0001798 ME Switchgear Replace	126,077.69	R
H0001820 Aina Lea Water Pump		R
H0001830 CH PALANI RD. RELOCATION		R
H1006000 POLE LINE REPL & RELOC	2,963,623.00	R
H1015000 MINOR CABLE REPLACEMENT	105,629.69	R
Kamiga03 Pahala #1 12KV UG Getaway		R
KWhite06 Transformer Vault Replacemen	250,000.00	R
EHulih03 7200 Line Easements		R
EHulih05 6800 Line Easements	225,000.00	R
H1001000 PURCHASE NEW KWH METERS	432,550.86	R

Hawaii Electric Light Company, Inc.
 2012 Plant Additions by categories

CChen01	Hakalau Sub Upgrade	200,000.00	R
CChen02	Honomu Transformer Upgrade		R
CChen03	Kanoe Breaker Fail Relays		R
CChen04	Kanoelehua #3 Ckt Switcher		R
CChen05	Kaumana Bkr Failure Relays		R
CChen06	Mt. View Transformer Upgrade		R
CChen09	Puna Station Service	116,036.75	R
CChen24	Kamuela Supy/UFLS		R
CChen36	Shipman-Kan Bkup Rlys		R
Dist02	KPF Switch Remote Upgrade	47,927.95	R
Dist03	KPF Switch Replacement	123,000.00	R
H0000052	Huehue Transformer Upgrade		R
H0000920	Kaloko Sub Tsf Upgrade		R
H0001564	Waimea Switchgear		R
H0001579	Waimea Grounding Improvement		R
H0001584	Kano #4 Distr Sub		R
H0001624	Puuwaawaa Sub Upgrade		R
H0001794	Replace CCVT	53,401.50	R
H0001808	Puna Sub Xfmr Upgrade		R
H1012000	UNIT SUBSTATION PURCHASE	640,920.19	R
H1016000	MINOR DISTR SUB ADD	269,419.72	R
H3404000	Substation Equip Repl	644,106.00	R
H3422000	SUBSTN BATTERY BANK REPL	62,771.79	R
Kamiga01	Pahala #1 Substation		R
Kamiga02	Pahala #1 69KV Drop		R
Kamiga05	Anaeoomalu #2 Sub Upgrade		R
Kamiga14	Waikoloa #1 Sub Upgrade	49,559.76	R
LRoger11	Anaeho'omalu Circuit Sw		R
LRoger12	Kaumana CB6201 Replacement		R
LRoger13	Kilauea CB6601 Replacement		R
MBecht01	Keamuku-Puu Huluhulu 6800		R
H1002000	PURCH TSF AND RELATED EQ	5,332,244.80	R
Dist01	Radio Console Replacements	-	R
H0001375	N Kohala Fiber Loop		R
H0001800	RTU Replacement 5310-510	-	R
H0001802	450 MHZ Radio Repl	-	R
H0001613	Puueo Cathodic Protection		R
H0001623	Waiau Stream Flow Measuremnt		R
H0001654	Waiau Cathodic Protection		R
H0001383	Keahole ST-7 Engineering		R
CChen07	Puna 13.8KV Ground Source	499,999.98	R
DHeinz71	Hill 5 Transformer Replace		R
DHeinz72	CT 4 Zero Time		R
DHeinz79	Fuel Tank Level Conv (Ship)		R
DHeinz80	Fuel Tank Level Conv (Hill)		R
DHeinz81	Fuel Tank Level Conv(Puna)		R
DHeinz82	Fuel Tank Level Conv (Keah)		R
DHeinz83	Fuel Tank Level Conv (Waimea	25,000.00	R
DHeinz84	Fuel Tank Level Conv (Kan)	25,000.00	R
H0001155	Waimea EMD Noise Abatement		R
H0001460	CT2 Black Start		R
H0001758	CT1 Controls Upgrade/Exciter		R
H0001793	D21/D22/D23 Breaker Replace		R
H3171000	Kawaihae Fuel Terminal		R
DHeinz08	Puna Retube Furnace		R
DHeinz09	Puna Retube Condenser		R
DHeinz13	S3 Steam Path Cylinder Rpr		R
DHeinz15	S4 Steam Path Cylinder Rpr		R
DHeinz18	Puna Ash Conditioner		R
DHeinz34	Puna Water Induction Mods		R
DHeinz35	Shipman Water Induction Mods		R

Hawaii Electric Light Company, Inc.
 2012 Plant Additions by categories

DHeinz47 Wailuku Stream Flow Measurmn	R
DHeinz48 H5 & H6 13.8KV Switchgear	R
DHeinz49 Replace H6 2400V & 480V	R
DHeinz70 Puna Fire Pump	R
DHeinz73 Hill 6 MCC Replace	R
DHeinz74 Puna MCC Replace	250,000.00 R
DHeinz75 Hill 6 2400V Replacement	R
DHeinz76 Shipman 4 HP Heater Rpl	R
DHeinz77 Shipman 3 Heater Replacement	R
DHeinz78 Shipman Demineralizer RPL	150,000.00 R
H0000698 Predictive Maint Program	R
H0001150 Shipman Propane Ignitors	R
H0001156 Hill 5 Asset Optimization	R
H0001157 Hill 6 Asset Optimization	R
H0001159 Ship 3 Asset Optimization	R
H0001160 Ship 4 Asset Optimization	R
H0001164 Puna Asset Optimization	R
H0001589 Hill 5 Control & 480V Cable	R
H0001591 Hill Water Induction Mods	R
H0001592 Hill Plant Alternate Access	R
H0001688 Hill Plant Hydrazine System	R
H0001744 Ship Plant Hydrazine System	R
H0001745 Puna Plant Hydrazine System	R
H0001746 H6FW Tube Bundle Replmnt	R
H0001750 Puna Turbine Upgrade	R
H0001755 Puna Generator Protection	R
H0001756 Hill 6 Generator Protection	R
H1010000 POWER PLANT ADDITIONS	153,232.69 R
H1020000 POWER STATION ADDITIONS	106,708.86 R
CChen08 Puna Breaker Fail Relay	R
Dist07 Repl 69V Porceln Strn Insul	84,999.96 R
H0001817 CH KAWAILANI ST RELOC	R
H1011000 MINOR TRANS SUB ADDITIONS	46,691.26 R
H1014000 MINOR TRANS LINE ADDITIONS	28,512.10 R
KWhite09 3300 Line Rebuild	R
LRoger01 Honokaa Relay Upgrade	R
LRoger05 Waimea Relay Updgrade	R
LRoger08 Keamuku Relay Upgrade	R
LRoger10 Waikoloa KPF Modification	R
MBecht02 Puu Huluhulu-Puu WaaWaa 6800	R
MBecht03 Puu Waa Waa- Huehue 6800	1,400,000.00 R
R Total	14,846,223.05
H0001228 PV Replacements	26,107.40 RNS
RNS Total	26,107.40
GSanti01 Geographical Information System Development	VOID
GSanti04 GIS Services	VOID
	31,819,875.70

Hawaii Electric Light Company, Inc.
 2013 Plant Additions by categories

R=Reliability

C=Customer Addition

RS=REIP/Renewable Surcharge Recoverable

RNS=Renewable not Surcharge Recoverable

G=Other (General Plant)

Proj	Project	Plant Addn 2013	Category
Almoto06	Makuu-Halona S/D		C
Almoto07	Aina Lea S/D Off Site		C
Almoto08	SH DOT Keaau-Pahoa Rd Reloc		C
Almoto09	Lanakila Housing Ph IIIA		C
CNishi19	Villas At Nani Mau		C
CVana07	Kiilae Farm Subdivision PH1		C
CVana09	Villages of Lai O' Pua Ph 5		C
CVana11	Laiopua Village 4 Off-Site		C
CVana12	Kona Highlands Undergroundin		C
CVana15	Kai Maluna Condo		C
CVana16	Lanihau Shopping Center Ph2		C
Glchin13	Discov Harbr 12KV Recnd Ph.2		C
Glchin14	Discov Harbr 12KV Recnd Ph.3		C
Glchin15	Makuu Offsite Water System		C
Glchin16	Punahoa Mauka Sbdvn.		C
H0000993	PTA Upgrades Army RFP		C
H0001370	Waikoloa Beach Drive 1		C
H0001586	Kano #4 12KV UG Getaway		C
H0001827	Kohala Ranch Well #3		C
H0001836	Shores at Kohanaiki		C
H0001837	Kona Commons Ph. 2 - Target		C
H0001839	Laiopua Village Phase 4		C
H0001841	Alii Palms Subdivision		C
H0001899	SSPP #1010 - Sheskey		C
H0007000	Unforseeable OH Cust Req	1,427,748.00	C
H0011000	Unforseeable UG Cust Req	2,098,346.00	C
H1007000	MINOR OTHER OH ADDITIONS	349,339.53	C
H1008000	MINOR OH EXTN BELOW 20000	2,553,355.00	C
H1013000	MINOR OH LINE CONVERSIONS	50,856.04	C
H1017000	MINOR UG EXTN BELOW 20000	1,546,127.29	C
H3521000	SSPP Requests	722,137.14	C
H4750000	OTHER UG ADDITIONS	8,518.72	C
MThorn05	HOVR REBUILD PH1	249,539.00	C
MThorn06	REM Kona Highlands PMH		C
MThorn08	HOVR REBUILD PH3		C
MThorn09	HOVR REBUILD PH4		C
MThorn10	HOVR REBUILD PH5		C
SLevin06	Wehilani Inc. 2		C
SLevin07	Shores at Kohanaiki Offsite		C
SLevin09	Waikoloa Pump 12KV		C
H0000350	Hokukano Sub		C
H0000351	Hokukano 69kv Drop		C
H0000352	Hokukano 12kv UG		C
H0000441	Hokukano 12KV UG Offsite		C
LRoger17	Kealia Station Service		C
LRoger18	Mauna Lani Circuit Sw		C
LRoger20	Waikoloa Heights Substn		C
SLevin08	Waikoloa #2 OH 12kv offsite		C
H1000000	MINOR OH SERVICES	1,926,089.00	C
H1003000	MINOR UG SERVICES	1,323,257.09	C
BMatsu11	Royal Hwn-Wright Rd Recon		C
C Total		12,255,312.81	- G
H0001862	Fleet GPS units		

Hawaii Electric Light Company, Inc.
 2013 Plant Additions by categories

EHulih01	Papaaloa Sub Land Acquisition	G
EHulih02	Queen K QLT Easement	G
EHulih04	Kealia Sub Land Acquisition	G
H0001615	AMR-Maniniowale Turtle Proj	- G
H0001617	ERT Mobile Collection	- G
H0001917	HELC-Advance Metering Infra	G
H0001918	AMR Turtle Meters - Rpl	- G
H1009000	MINOR R/W SURVEY	9,999.96 G
H0000010	Battery Replacement	24,231.67 G
H0000687	Substation Fencing	120,000.00 G
LRoger09	Waimea Fencing Improvement	G
H0000176	Comm Site Air Conditioning	9,999.60 G
H0001001	Kanoelehua Emerg Gen	G
H4800000	MINOR COMMUNICATIONS FAC	77,148.83 G
H4818000	Delta Mobile Radio	19,020.70 G
LRoger02	Waimea Comm Facility	G
LRoger03	Host Park Supy	G
LRoger04	Keahole Airport Supy	G
LRoger06	Cptn Cook - Ohia Mill MW	G
LRoger07	Kealia - Captain Cook MW	G
LRoger14	Hill Plant Comm Facility	G
LRoger15	Humuula Comm Facility	G
LRoger19	Mauna Lani - Huehue MW	G
H0000334	Cust Svcs Ofc Furniture	5,933.50 G
H0001414	Office furniture & equipment	G
H5101000	CUST SVC DEPT OFFICE FURN	7,120.20 G
H5102000	ACCTG DEPT OFFICE FURNIT	4,373.16 G
H5103000	ENGR DEPT OFFICE FURNIT	6,198.42 G
H5104000	DISTR DEPT OFFICE FURNIT	33,120.81 G
H5105000	PROD DEPT OFFICE FURNIT	21,360.60 G
H5106000	ADMIN DEPT OFFICE FURNIT	- G
GSanti02	GIS Hardware	29,667.50 G
GSanti03	GIS Software	65,268.50 G
GSanti05	Company Computer Purchase	44,422.46 G
GSanti06	Enterprise Backup System	- G
H0000188	Prod Dept PC Purchase	65,268.45 G
H0000229	PC Tools	8,264.65 G
H0000295	Engr CADD Wrkstation Kona	25,827.02 G
H0000296	Engr CADD Wrkstation Hilo	39,257.08 G
H0000335	Cust Svcs PC Purchase	35,719.67 G
H0000462	HELCO Lan/Wan	71,282.58 G
H0000469	Computer Purchase-Admin	- G
H0001131	Distribution PC Purchases	45,094.65 G
H0001367	Router Upgrade	61,984.85 G
H0001842	Engineering CADD server upgrd	G
H0001843	HELCO Server Upgrades	64,051.01 G
H5125000	ACCTG DEPT PC PURCHASE	9,839.70 G
H5126000	ENGR DEPT PC PURCHASE	20,661.62 G
H5129000	CUST SVC PC PURCHASE	25,028.55 G
Pres01	Computer Upgrades	- G
Pres02	Computer Purchases	- G
BCoope01	Upgrade Survey Equip- Phase2	G
BCoope02	Upgrade Survey Equip- Phase3	G
Dist08	Trouble Shtr Analysis Tools	21,360.60 G
Dist09	50 KW Generator Trailer	G
H0000333	Cust Svcs Tools & Equip	7,120.20 G
H0000924	Field Service Handhelds	G
H0001588	Extd Shop High Bay & OH Cran	G
H0001760	Keahole Shop Milling Machine	G
H0001762	Keahole Shop Bridge Crane	G
H5000000	ACCTG DEPT TOOLS & EQUIP	2,999.94 G

Hawaii Electric Light Company, Inc.
 2013 Plant Additions by categories

H5001000	PROD DEPT TOOLS & EQUIP	173,258.25	G
H5002000	CUST SVC DEPT TOOLS & EQUIP	2,373.40	G
H5003000	ENGR DEPT TOOLS & EQUIP	5,933.97	G
H5004000	DISTR DEPT TOOLS & EQUIP	340,210.67	G
H5005000	ADMIN DEPT TOOLS & EQUIP	-	G
TSmith01	Physical Evidence Storage		G
TSmith02	Multi-Gas Detectors	12,222.96	G
TSmith03	Hearing Conservation Program		G
TSmith04	Safety Misc. Tools & Equipm	11,866.95	G
TSmith05	Respiratory Program		G
H0001754	Hilo Fuel Terminal/Dsl Tank		G
H0001100	Annual SCADA Upgrades	53,401.50	G
H0001761	Keahole Plotter		G
H0001593	Hill Plant Women's Restroom		G
H1019000	MISC ENVIRON & OSHA PROJECTS	82,640.04	G
Dist06	Office Area Modification	30,000.00	G
ES04	Energy Efficiency Improvements	-	G
H0000672	Main Ofc Bldg Improvements	59,335.00	G
H0001351	Technical Roof Extension	-	G
H0001553	Covered Parking Area - HDH		G
H0001555	Kanoelehua Paving		G
H0001559	Kona 30 day PCB Storage		G
H0001560	Waimea 30 day PCB Storage		G
H0001622	Production Office Expansion		G
H0001747	Keahole Containment Bldg		G
H0001751	Puna Emergency Stairs		G
H0001752	Hill Emergency Stairs		G
H0001753	Shop Restrm/Breakrm Renovatn		G
H4900000	MINOR GENERAL PLANT	25,566.89	G
NKawab02	HR Office Renovation - Capet		G
NKawab03	Admin Office Renovation		G
H0000331	Heavy Trucks	1,400,000.00	G
H0000549	Sedans & Light Trucks	771,355.00	G
G Total		3,949,791.11	
BMaeda08	Pepeekeo Conv Mauka Ph 1		R
BMaeda09	Pepeekeo Conv Makai Ph 2		R
BMaeda10	Pepeekeo Conv South Ph 3		R
BMatsu12	Kapoho Vacation Anchor REPL		R
CNishi06	Orchid Isle- Mt View Tie		R
CVana13	Queen K & Henry St. Crossing		R
H0000791	Hawi Conv Ph 4		R
H0000928	Kapoho Vacation Land Rpl		R
H0001177	Pole Restoration	150,000.00	R
H0001180	Replace Old Service Conduct	150,000.00	R
H0001352	Distribution Automation	59,335.05	R
H0001366	Ainako Conversion Phase 2		R
H0001557	Repl Primary Disconnect	47,276.69	R
H0001570	RPL Kona Palisades Ph 4		R
H0001578	Kam Devt Fault Interrupters		R
H0001585	Kano Distr #4 69KV Drop		R
H0001795	Replace Lightening Arrestors	27,294.15	R
H0001798	ME Switchgear Replace		R
H0001820	Aina Lea Water Pump		R
H0001830	CH PALANI RD. RELOCATION		R
H1006000	POLE LINE REPL & RELOC	2,981,520.00	R
H1015000	MINOR CABLE REPLACEMENT	105,627.94	R
Kamiga03	Pahala #1 12KV UG Getaway		R
KWhite06	Transformer Vault Replaced	250,000.00	R
EHulih03	7200 Line Easements		R
EHulih05	6800 Line Easements		R
H1001000	PURCHASE NEW KWH METERS	435,248.02	R

Hawaii Electric Light Company, Inc.
 2013 Plant Additions by categories

CChen01	Hakalau Sub Upgrade	R
CChen02	Honomu Transformer Upgrade	R
CChen03	Kanoe Breaker Fail Relays	R
CChen04	Kanoelhua #3 Ckt Switcher	150,000.00 R
CChen05	Kaumana Bkr Failure Relays	R
CChen06	Mt. View Transformer Upgrade	R
CChen09	Puna Station Service	R
CChen24	Kamuela Supy/UFLS	R
CChen36	Shipman-Kan Bkup Rlys	100,000.00 R
Dist02	KPF Switch Remote Upgrade	48,237.16 R
Dist03	KPF Switch Replacement	123,000.00 R
H0000052	Huehue Transformer Upgrade	R
H0000920	Kaloko Sub TsF Upgrade	R
H0001564	Waimea Switchgear	R
H0001579	Waimea Grounding Improvement	R
H0001584	Kano #4 Distr Sub	R
H0001624	Puuwaawaa Sub Upgrade	R
H0001794	Replace CCVT	53,401.50 R
H0001808	Puna Sub Xfmr Upgrade	R
H1012000	UNIT SUBSTATION PURCHASE	386,714.91 R
H1016000	MINOR DISTR SUB ADD	134,585.08 R
H3404000	Substation Equip Repl	130,896.88 R
H3422000	SUBSTN BATTERY BANK REPL	62,933.47 R
Kamiga01	Pahala #1 Substation	R
Kamiga02	Pahala #1 69KV Drop	R
Kamiga05	Anaehoomalu #2 Sub Upgrade	R
Kamiga14	Waikoloa #1 Sub Upgrade	R
LRoger11	Anaeho'omalu Circuit Sw	R
LRoger12	Kaumana CB6201 Replacement	R
LRoger13	Kilauea CB6601 Replacement	R
MBecht01	Keamuku-Puu Huluhulu 6800	R
H1002000	PURCH TSF AND RELATED EQ	5,395,480.08 R
Dist01	Radio Console Replacements	- R
H0001375	N Kohala Fiber Loop	R
H0001800	RTU Replacement 5310-510	- R
H0001802	450 MHZ Radio Repl	- R
H0001613	Puueo Cathodic Protection	R
H0001623	Waiau Stream Flow Measuremnt	R
H0001654	Waiau Cathodic Protection	R
H0001383	Keahole ST-7 Engineering	R
CChen07	Puna 13.8KV Ground Source	R
DHeinz71	Hill 5 Transformer Replace	R
DHeinz72	CT 4 Zero Time	2,000,000.00 R
DHeinz79	Fuel Tank Level Conv (Ship)	R
DHeinz80	Fuel Tank Level Conv (Hill)	R
DHeinz81	Fuel Tank Level Conv(Puna)	100,000.00 R
DHeinz82	Fuel Tank Level Conv (Keah)	R
DHeinz83	Fuel Tank Level Conv (Waimea)	R
DHeinz84	Fuel Tank Level Conv (Kan)	R
H0001155	Waimea EMD Noise Abatement	R
H0001460	CT2 Black Start	R
H0001758	CT1 Controls Upgrade/Exciter	R
H0001793	D21/D22/D23 Breaker Replace	R
H3171000	Kawaihae Fuel Terminal	R
DHeinz08	Puna Retube Furnace	R
DHeinz09	Puna Retube Condenser	R
DHeinz13	S3 Steam Path Cylinder Rpr	R
DHeinz15	S4 Steam Path Cylinder Rpr	R
DHeinz18	Puna Ash Conditioner	R
DHeinz34	Puna Water Induction Mods	R
DHeinz35	Shipman Water Induction Mods	R

Hawaii Electric Light Company, Inc.
 2013 Plant Additions by categories

DHeinz47	Wailuku Stream Flow Measurmn	R
DHeinz48	H5 & H6 13.8KV Switchgear	R
DHeinz49	Replace H6 2400V & 480V	R
DHeinz70	Puna Fire Pump	R
DHeinz73	Hill 6 MCC Replace	R
DHeinz74	Puna MCC Replace	R
DHeinz75	Hill 6 2400V Replacement	R
DHeinz76	Shipman 4 HP Heater Rpl	R
DHeinz77	Shipman 3 Heater Replacement	R
DHeinz78	Shipman Demineralizer RPL	R
H0000698	Predictive Maint Program	-
H0001150	Shipman Propane Ignitors	R
H0001156	Hill 5 Asset Optimization	R
H0001157	Hill 6 Asset Optimization	R
H0001159	Ship 3 Asset Optimization	R
H0001160	Ship 4 Asset Optimization	R
H0001164	Puna Asset Optimization	R
H0001589	Hill 5 Control & 480V Cable	R
H0001591	Hill Water Induction Mods	R
H0001592	Hill Plant Alternate Access	R
H0001688	Hill Plant Hydrazine System	R
H0001744	Ship Plant Hydrazine System	R
H0001745	Puna Plant Hydrazine System	R
H0001746	H6FW Tube Bundle Replmnt	R
H0001750	Puna Turbine Upgrade	R
H0001755	Puna Generator Protection	R
H0001756	Hill 6 Generator Protection	R
H1010000	POWER PLANT ADDITIONS	183,879.17 R
H1020000	POWER STATION ADDITIONS	103,299.96 R
CChen08	Puna Breaker Fail Relay	R
Dist07	Repl 69V Porceln Strn Insul	84,999.60 R
H0001817	CH KAWAILANI ST RELOC	R
H1011000	MINOR TRANS SUB ADDITIONS	46,823.15 R
H1014000	MINOR TRANS LINE ADDITIONS	28,774.42 R
KWhite09	3300 Line Rebuild	3,000,000.00 R
LRoger01	Honokaa Relay Upgrade	R
LRoger05	Waimea Relay Updgrade	R
LRoger08	Keamuku Relay Upgrade	R
LRoger10	Waikoloa KPF Modification	R
	Repower Waiau Hydro	7,999,211.00
MBecht02	Puu Huluhulu-Puu WaaWaa 6800	R
MBecht03	Puu Waa Waa- Huehue 6800	10,400,000.00 R
R Total		34,738,538.23
H0001228	PV Replacements	26,107.40 RNS
RNS Total		26,107.40
GSanti01	Geographical Information System Development	VOID
GSanti04	GIS Services	VOID
		50,969,749.55

Maui Electric Co., Ltd.
Plant Additions By Category
2004-2008 Actuals & 2009-2013 Forecast (January 2009 Board Forecast)

2004-2008 Actuals & 2009-2013 Forecast (January 2009 Board Forecast)

<u>Year</u>	<u>Reliability</u>	<u>Customer Additions</u>	<u>REIP</u>	<u>Renewable</u>	<u>Others</u>	<u>Total</u>
2003	12,751,150.95	17,961,870.59	-	-	5,256,221.55	35,969,243.09
2004	13,715,201.04	9,015,713.38	-	-	3,493,398.06	26,224,312.48
2005	8,561,125.79	13,277,355.90	-	-	2,310,679.46	24,149,161.15
2006	71,165,409.48	16,369,725.75	-	566,113.63	408,096.81	88,509,345.67
2007	11,535,903.17	17,961,384.90	-	9,547.24	788,266.98	30,295,102.29
2008	15,442,145.22	21,854,863.24	-	758,478.29	2,036,499.28	40,091,986.03
2009	18,516,555.70	26,712,213.23	-	-	1,871,412.00	47,100,180.93
2010	5,807,857.00	24,111,374.00	-	4,807,179.00	1,463,084.00	36,189,494.00
2011	24,780,847.54	24,429,811.00	-	2,919,586.00	1,290,306.00	53,420,550.54
2012	3,878,819.00	24,804,126.00	-	-	2,243,229.00	30,926,174.00
2013	4,492,944.00	25,079,748.00	-	-	1,259,206.00	30,831,998.00
Total	177,896,807.94	203,616,315.40	-	9,060,904.16	17,164,177.59	407,738,205.09

Maui Electric Co., Ltd.
 Depreciation Accrual by Category
 2004-2008 Actuals & 2009-2013 Forecast (January 2009 Board Forecast)

<u>Year</u>	<u>Reliability</u>	<u>Customer Additions</u>	<u>REIP</u>	<u>Renewable</u>	<u>Others</u>	<u>Total</u>
2004	516,254.37	817,265.11	-	-	339,561.91	1,673,071.39
2005	573,529.96	411,116.53	-	-	224,974.84	1,209,621.32
2006	344,037.55	604,119.69	-	9,957.32	145,110.67	1,103,225.23
2007	2,471,842.31	741,548.58	-	19,662.77	25,587.67	3,258,641.32
2008	455,251.10	813,650.74	-	420.34	49,739.65	1,319,061.82
2009	632,177.97	985,654.33	-	34,207.37	127,281.21	1,779,320.88
2010	759,595.10	1,212,734.48	-	-	117,524.67	2,089,854.25
2011	239,834.01	1,094,656.38	-	169,673.86	91,735.37	1,595,899.62
2012	1,057,923.77	1,109,113.42	-	100,393.63	80,773.16	2,348,203.97
2013	167,818.87	1,126,107.32	-	-	140,426.14	1,434,352.32
Total	7,218,264.99	8,915,966.58	-	334,315.28	1,342,705.27	17,811,252.13

Maui Electric Co., Ltd.
 CIAC by Category
 2004-2008 Actuals & 2009-2013 Forecast (January 2009 Board Forecast)

<u>Year</u>	<u>Reliability</u>	<u>Customer Additions</u>	<u>REIP</u>	<u>Renewable</u>	<u>Others</u>	<u>Total</u>
2003		8,808,678.97		-		8,808,678.97
2004		2,815,997.96		-		2,815,997.96
2005		6,973,901.72		-		6,973,901.72
2006		9,984,631.80		-		10,486,631.80
2007		9,742,838.22		-		9,742,838.22
2008		8,056,379.90		-		8,623,605.68
2009		15,229,000.00		-		15,229,000.00
2010		15,228,000.00		-		15,228,000.00
2011		15,439,000.00		-		15,439,000.00
2012		15,678,000.00		-		15,678,000.00
2013		15,853,000.00		-		15,853,000.00
Total		115,000,749.60		1,069,225.78		116,069,975.38

Maui Electric Co., Ltd.
 CIAC Amortization by Category
 2004-2008 Actuals & 2009-2013 Forecast (January 2009 Board Forecast)

<u>Year</u>	<u>Reliability</u>	<u>Customer Additions</u>	<u>REIP</u>	<u>Renewable</u>	<u>Others</u>	<u>Total</u>
2004		(293,622.63)				(293,622.63)
2005		(93,866.60)				(93,866.60)
2006		(232,463.39)				(232,463.39)
2007		(316,087.73)				(316,087.73)
2008		(308,027.94)				(308,027.94)
2009		(232,905.13)				(232,905.13)
2010		(471,992.46)				(471,992.46)
2011		(471,959.13)				(471,959.13)
2012		(478,992.46)				(478,992.46)
2013		(486,959.13)				(486,959.13)
Total		(3,386,876.61)		(35,640.86)		(3,422,517.47)

Maui Electric Company, Limited
 Book Plant Additions by 5th Segment
 For Year Ending December 31, 2003

<u>Project No.</u>	<u>Project Description</u>	<u>Plant Addition</u>	<u>Decoupling Category</u>	<u>Functional Category</u>
M0000425	The Pinnacle	(2.54)	Customer Addition	Distribution
M0000429	SOH MMH Renovation	67,635.26	Customer Addition	Distribution
M0000430	SOH Puunene/Mokulele Widening	1,017.92	Customer Addition	Distribution
M0000431	COM Kanaloa Ave Improvements	874.81	Customer Addition	Distribution
M0000434	Com L Hpiilani Rd Pole E31	59,194.91	Customer Addition	Distribution
M0000438	WLK Country Est Subdv	910,894.91	Customer Addition	Distribution
M0000464	Makila Plantation Subdivision	240,011.79	Customer Addition	Distribution
M0000466	USPS Kihei Carrier Annex Ste	30,177.75	Customer Addition	Distribution
M0000475	MF-21 Subdivision	200,507.76	Customer Addition	Distribution
M0000495	Maui Lani Parkway	394,490.47	Customer Addition	Distribution
M0000513	Puunoa Subdivision	110,204.46	Customer Addition	Distribution
M0000566	Sierra Emory UG Svc	23,748.95	Customer Addition	Distribution
M0000568	Maui Lani Bluffs Subdiv	32,052.58	Customer Addition	Distribution
M0000577	Puunene Armory-Offsite	147,250.10	Customer Addition	Distribution
M3030000	Minor R/W Purch & Apprai-Maui	2,859.25	Customer Addition	Distribution
M3032000	Minor R/W Purch & Apprai-Lanai	63.75	Customer Addition	Distribution
M3033000	Minor R/W Purch & Apprai-Molokai	782.50	Customer Addition	Distribution
M7000000	Overhead Services & Extensions	440,424.64	Customer Addition	Distribution
M7010000	OH Svc & Extensions	159,369.54	Customer Addition	Distribution
M7300000	Minor Pole Line Reloca	118,383.59	Customer Addition	Distribution
M7900000	Meters & Metering Equip (RB)	1,044,939.75	Customer Addition	Distribution
M7910000	Transformers & Rel. Eq. (RB)	1,590,956.59	Customer Addition	Distribution
M7920000	Minor State Hwy Projects	99,436.39	Customer Addition	Distribution
M7990000	Street Lights	24,007.42	Customer Addition	Distribution
M8000000	Underground Services & Extns.	1,305,941.57	Customer Addition	Distribution
M8010000	UG Services & Extensions	1,311,918.95	Customer Addition	Distribution
M8020000	In-Kind CIAC Maui	6,839,347.18	Customer Addition	Distribution
M8500000	Minor OH-UG Conversions	26,982.77	Customer Addition	Distribution
M8900000	Other Underground Additions	471,484.88	Customer Addition	Distribution
M0000439	SOH Mokulele Hwy Widen Ph2A	57,506.86	Customer Addition	Distribution
M0000060	SOH H Piilani Widening (Maalaea)	(0.62)	Customer Addition	Distribution
M0000436	Maunaolu Ag On-Site	1,372.48	Customer Addition	Distribution
M0000441	Kihei Commercial Ctr Ph D	50,411.63	Customer Addition	Distribution
M0000442	Honolua Dorms Line Relo	370.05	Customer Addition	Distribution
M0000453	Kilohana Hema Subdivision	44,498.26	Customer Addition	Distribution
M0000454	Manale Subdv Ph-1B	228,023.72	Customer Addition	Distribution
M0000457	Karl Heyer Pole Line Relo	43,078.77	Customer Addition	Distribution
M0000459	Fagerholm Subdivision	39,110.38	Customer Addition	Distribution
M0000463	Piilani Gardens	69,950.89	Customer Addition	Distribution
M0000465	Kapua Village Subdiv	76,990.82	Customer Addition	Distribution
M0000470	Sky Lewis Line Ext	69,530.41	Customer Addition	Distribution
M0000476	N. Shore Village Subdivision	20,186.39	Customer Addition	Distribution
M0000567	Waiolani Elua Subdiv	36,539.78	Customer Addition	Distribution
M0000427	Com Wailea Firestation	63,285.53	Customer Addition	Distribution
M0000428	Na Hale O Makena	866.63	Customer Addition	Distribution
M0000432	Maunaolu Ag Off-Site	38.96	Customer Addition	Distribution
M0000444	Kaonoulu Multi-Family Housing	19,226.29	Customer Addition	Distribution
M0000484	Kilohana Mauka Subdiv	58,982.17	Customer Addition	Distribution
M0000511	System QKSC Offsite	162,849.66	Customer Addition	Distribution
M0000562	SOH Hpiilani-Maalaea S/Lites	20,109.70	Customer Addition	Distribution
M0000563	SOH Kuihelani Hwy Widening	343,229.95	Customer Addition	Distribution
M0000580	West Maui Resource Center	95,246.07	Customer Addition	Distribution
M8021000	In-Kind CIAC Molokai	719,099.77	Customer Addition	Distribution
M0000462	Wailuku Country Estates Relo	86,408.14	Customer Addition	Distribution
		17,961,870.59	Customer Addition	Total

Maui Electric Company, Limited
 Book Plant Additions by 5th Segment
 For Year Ending December 31, 2003

<u>Project No.</u>	<u>Project Description</u>	<u>Plant Addition</u>	<u>Decoupling Category</u>	<u>Functional Category</u>
M0000229	Lifecycle Maintenance 02-03	370,819.45	Others	
M0000280	Hand Meter Read Dev	85,418.32	Others	
M0000382	EMS/SCADA Virtual Charts	41,112.22	Others	
M0000396	KBY Water Line	217,701.27	Others	
M0000405	CS Security Measures	11,061.49	Others	
M0000406	CS Computer Equip	8,137.00	Others	
M0000461	T&D/Main Offc Bldg Upgrade	227,854.60	Others	
M0000486	Mobile Radio Upgrade-Maui	266,313.64	Others	
M0000487	Molokai Phone System Upgrade	62,757.08	Others	
M0000488	MECO WAN Multiplexer	109,339.36	Others	
M0000503	AMR Pilot	40,829.03	Others	
M0000504	Molokai Mobile Radio Upgr	19,114.25	Others	
M0000505	Comm System Upgr-Lanai	90,058.22	Others	
M0000506	Comm System Upgr-Maui	282,379.67	Others	
M0000569	IVR Project	63,513.13	Others	
M9000000	Minor Communication Facilities	24,483.22	Others	
M9080000	T&D Radio Equipment	26,545.04	Others	
M9200000	Minor Gen Plant Addn	5,534.43	Others	
M9410000	Tools & Equip-T&D	251,415.21	Others	
M9420000	Tools & Equip-Production	72,299.53	Others	
M9660000	Office Furn And Equip Acc	15,338.23	Others	
M9661000	Office Furn And Equip Admin	41,221.64	Others	
M9662000	Office Furn And Equip T&D	131,265.31	Others	
M9663000	Office Furn And Equip Pro	12,209.79	Others	
M9664000	Office Furn And Equip Eng	5,704.56	Others	
M9665000	Office Furn And Equip Cus	60,066.84	Others	
M9800000	Vehicle Purchases	1,931,498.50	Others	
M0000130	T&D/Main Offc Bldg Repairs/Upgr	(661.66)	Others	
M0000376	Molokai WAN Improvement	564.00	Others	
M0000378	Molokai Security Project	504.17	Others	
M0000384	Collaborative Communication	34,737.35	Others	
M0000411	T&D Whse Storage Area	7,531.96	Others	
M0000412	Ice Storage Project Main Office	207,407.92	Others	
M0000433	Lanai Security Project	27,795.37	Others	
M0000471	Router Repl	39,005.46	Others	
M0000473	Security Guard Computers	2,195.31	Others	
M0000474	Lahaina WAN	5,767.31	Others	
M0000483	Cust Svc Backup LAN	4,729.86	Others	
M0000485	Infrared Camera	59,909.02	Others	
M0000501	AM/FM Maui Distribution	294,887.04	Others	
M0000515	Molokai Fire System Upgrade	28,074.35	Others	
M0000516	Scissors Lift	23,742.54	Others	
M0000575	KBY Voice Recorder Installation	46,040.52	Others	
5,256,221.55 Others Total				
M0000084	Baldwin Ave Modular Sub	352,832.13	Reliability	D
M0000089	Paia Scada	43,852.59	Reliability	D
M0000118	Koole Sub 301 Tsf Repl	(49,387.19)	Reliability	D
M0000124	Distr Syst Eq Purch-Radiator	19,065.48	Reliability	D
M0000189	Haiku RTU Addn	(1,687.57)	Reliability	D
M0000198	Kihei Sub 35 Tsf Addn	590,680.04	Reliability	D
M0000243	Kah Sub8 SCADA	56,120.96	Reliability	D
M0000245	Central Maui 10MVar Cap Bank	11,477.79	Reliability	D
M0000300	Repl.Dist.Tools&Equip	67,910.45	Reliability	D
M0000314	LCM-Regulators&Controllers	83,516.62	Reliability	D

Maui Electric Company, Limited
 Book Plant Additions by 5th Segment
 For Year Ending December 31, 2003

Project No.	Project Description	Plant Addition	Decoupling Category	Functional Category
M0000315	LCM-Reclosures&Controllers	96,257.62	Reliability	D
M0000316	LCM-Batteries & Chargers	143,576.71	Reliability	D
M0000317	LCM-Distr ACB	17,493.10	Reliability	D
M0000353	PMCo Distr Line Esmt	456,490.22	Reliability	D
M0000408	Kuau 4kV Reg Addn	13,623.46	Reliability	D
M0000440	Lahaina Indus Prk Upgr	44,399.41	Reliability	D
M0000443	L Hpileani Rd Pole E13	43,062.13	Reliability	D
M0000472	Kenolio Road Reconducto	50,075.55	Reliability	D
M0000478	Paia Reconductoring Ph 2	94,111.31	Reliability	D
M0000517	Kalaupapa Structure Repl	79,976.94	Reliability	D
M0000579	Valley Isle Resort-Sys	14,103.55	Reliability	D
M3600000	Minor Distribution SS Add	211,187.55	Reliability	D
M7450000	Minor Oh Fdrs & Conv	13,033.24	Reliability	D
M7750000	Other Overhead Additions	891,949.97	Reliability	D
M7760000	Other OH Additions - Lanai	56.91	Reliability	D
M7761000	Minor Storm Damage Repairs	76,374.19	Reliability	D
M8700000	Minor Cable Failure Replace	272,019.55	Reliability	D
M8984000	Wailea Alanui FDR Inst	108,339.75	Reliability	D
M0000206	RTU Comm	131,028.28	Reliability	G
M0000207	Mpp-Kealahou MW	166,039.70	Reliability	G
M0000490	Sub 92 Site Acquisition	13,954.85	Reliability	G
M3023000	Lahainaluna Switching Stn Site	627.69	Reliability	G
M0000185	K4 Boiler Retubing	12,929.10	Reliability	P
M0000253	KPP Repairs 2001	(68,483.14)	Reliability	P
M0000318	K3,4 Level Transmitters	31,928.84	Reliability	P
M0000330	MPP CEMS Dilution (14,16)	20,869.00	Reliability	P
M0000331	MPP CEMS Data Logger Upgrd	85,736.44	Reliability	P
M0000336	M4-M7 Vibration Monitors	9,216.65	Reliability	P
M0000339	MPP Fuel/Lube Oil Piping	118,899.11	Reliability	P
M0000373	LPP AFFF Fuel Tanks	(1,500.00)	Reliability	P
M0000377	K1-3 Hot Well Drains	46,664.66	Reliability	P
M0000379	Kpp Sprinkler Turb Bearings	42,404.48	Reliability	P
M0000380	K4 Boiler Sootblower	82,106.16	Reliability	P
M0000400	Fuel Storage Fire Sprinkler	28,131.15	Reliability	P
M0000416	KPP Septic System	42,087.32	Reliability	P
M0000417	MPP Septic System	87,471.58	Reliability	P
M0000420	M10-13 Vibration Monitor	40,350.23	Reliability	P
M0000446	K1,K2 Opacity Monitor Upgrade	20,098.84	Reliability	P
M0000447	LL1/LL2 Governor Upgrade	44,993.96	Reliability	P
M0000448	MPP M14-M16 Fuel Line	3,650.00	Reliability	P
M0000449	KPP/MPP AFFF System	(1,287.99)	Reliability	P
M0000458	MPP Swing Arm Operator	24,831.19	Reliability	P
M0000479	Molokai Unit#5 Generator	49,759.29	Reliability	P
M0000482	Purchase GE LM2500PE Spare Engine	3,220,256.54	Reliability	P
M0000498	Molokai Unit#3 Generator	47,392.07	Reliability	P
M0000499	KPP Fencing Project 2003	53,277.04	Reliability	P
M0000502	M14/M16 Vibration Monitor	71,410.48	Reliability	P
M0000514	K4 Auxiliary Transformer	70,537.58	Reliability	P
M0000564	M4-9 Roof	83,889.23	Reliability	P
M0000565	Lanai Lube Oil Tank	13,930.13	Reliability	P
M2600000	MPP Minor PS Additions	118,199.35	Reliability	P
M2601000	KPP Minor PS Additions	79,058.87	Reliability	P
M2602000	LPP Minor PS Addition	1,035.32	Reliability	P
M2603000	MOE Minor PS Addition	11,072.34	Reliability	P
M3142000	MPP M19-20 MW CT	17,598.70	Reliability	P

Maui Electric Company, Limited
 Book Plant Additions by 5th Segment
 For Year Ending December 31, 2003

<u>Project No.</u>	<u>Project Description</u>	<u>Plant Addition</u>	<u>Decoupling Category</u>	<u>Functional Category</u>
M3183000	SCR Demonstration Project	2,972.96	Reliability	P
M3200000	MPP Minor PP Additions	51,020.05	Reliability	P
M3201000	KPP Minor PP Additions	3,206.84	Reliability	P
M3202000	LPP Minor PP Addition	816.62	Reliability	P
M0000019	Damages Caused By External Party	40,306.41	Reliability	T
M0000029	Minor UG Trans Addn	2,674.98	Reliability	T
M0000098	Kanaha/Kanaha-Puunene Relay Upgr	1,040.64	Reliability	T
M0000121	Peahi Regulator Repl	54,390.26	Reliability	T
M0000123	Trans Syst Eq Purch-Radiator	281,681.40	Reliability	T
M0000187	Puunene Interchange Tsf Inst	484,398.27	Reliability	T
M0000200	23kV Breaker Repl-Wku Sub 3	183,652.38	Reliability	T
M0000201	23kV Brkr Repl-Ph2	426,517.76	Reliability	T
M0000202	23kV Breaker Repl-KPP	355,654.01	Reliability	T
M0000240	Kanaha Tie Tsf Repl	62.10	Reliability	T
M0000246	Puunene 23kV Fdr Inst	54,889.93	Reliability	T
M0000247	Rg Insul Repl Maalaea-Naalea	200,463.29	Reliability	T
M0000260	Transm Repl Ph3	197,343.68	Reliability	T
M0000261	Transmission Ln Repl Ph 1	1,369.62	Reliability	T
M0000283	23kV Breaker Repl-Waiini Sub 36	165,671.49	Reliability	T
M0000437	Kanaha/Pukalani 69kV Reconstr	(14,756.22)	Reliability	T
M0000467	Kanaha Tie Tsf Pad/Pit	69,187.50	Reliability	T
M0000477	Sub 2&3 Chart Rec Repl	25,817.21	Reliability	T
M0000481	Spare 23kV Breaker	23,805.76	Reliability	T
M0000491	Paia Transmission Sub 93	43,110.85	Reliability	T
M0000509	Sub2 to Haleakala Hwy 23kV	18,897.87	Reliability	T
M0000510	Haleakala to Baldwin 23kV	236,137.18	Reliability	T
M0000570	Kanaha Security Camera	46,966.68	Reliability	T
M0000571	Waiini Security Camera	52,389.01	Reliability	T
M0000572	Wku Sub3 Security Camera	53,567.49	Reliability	T
M0000574	Pukalani/KBYSub Security Camera	50,164.20	Reliability	T
M0000576	Mill Street 69kV Reloc	76,082.06	Reliability	T
M3042000	Maalaea-Lahaina 3rd 69Kv Easmt	113.16	Reliability	T
M3300000	Transmission Sub Additions	70,685.86	Reliability	T
M3500000	Minor Transm Plant Lines	450,492.19	Reliability	T
M3543000	Waiale To Sub 36 T&D Ln Reconstruction	419,679.96	Reliability	T

12,751,150.95 **Reliability Total**
35,969,243.09 **Grand Total**

Depreciation Calculations:

	<u>Reliability Adds</u>	<u>2004 Depn %</u>	<u>2004 Depr Accrual</u>
Reliability	3,800,512.46	4.55%	172,923.32
Distribution	311,650.52	6.46%	20,132.62
General Plant	4,566,530.99	4.09%	186,771.12
Production	4,072,456.98	3.35%	136,427.31
Transmission			
Totals	12,751,150.95		516,254.37
Customer Adds	17,961,870.59	4.55%	817,265.11
Other	5,256,221.55	6.46%	339,551.91

Maui Electric Co., Ltd.
 YTD Plant Additions by Project
 December 2004

<u>5th</u>	<u>DESCRIPTION</u>	<u>SumOfAMOUNT</u>	<u>Decoupling Category</u>	<u>Functional Category</u>
M0000425	The Pinnacle	30,738.32	Customer Addition	Distribution
M0000426	Lahaina Recreation Ctr Exp	36,997.11	Customer Addition	Distribution
M0000429	SOH MMH Renovation	2,304.84	Customer Addition	Distribution
M0000430	SOH Mokulele Hwy Widen Ph2B	137,656.64	Customer Addition	Distribution
M0000431	COM Kanaloa Ave Improvements	376.38	Customer Addition	Distribution
M0000434	COM L Hpilani Rd Pole E31	1,330.41	Customer Addition	Distribution
M0000438	WLK Country Est Subdv	27,935.75	Customer Addition	Distribution
M0000464	Makila Plantation Subdivision	(1,730.32)	Customer Addition	Distribution
M0000466	USPS Kihei Carrier Annex Ste	1,014.41	Customer Addition	Distribution
M0000475	MF-21 Subdivision	61,944.89	Customer Addition	Distribution
M0000495	Maui Lani Parkway	36,327.47	Customer Addition	Distribution
M0000508	Waiehu Kou Subdiv Ph3	217,697.25	Customer Addition	Distribution
M0000513	Puunoa Subdivision	9,154.43	Customer Addition	Distribution
M0000524	Olowalu Mauka Subdv	115,533.21	Customer Addition	Distribution
M0000527	The Ridge at Kulamamu	97,476.56	Customer Addition	Distribution
M0000551	Villas at Kahana Ridge	71,297.39	Customer Addition	Distribution
M0000553	Malaihi Ag Subdiv	143,417.41	Customer Addition	Distribution
M0000554	COM-Lanai Police Station	44,757.24	Customer Addition	Distribution
M0000561	Waiko Industrial Subiv	2,259.63	Customer Addition	Distribution
M0000566	Sierra Emory UG Svc	(440.00)	Customer Addition	Distribution
M0000568	Maui Lani Bluffs Subdiv	(83.46)	Customer Addition	Distribution
M0000577	Puunene Armory-Offsite	13,407.71	Customer Addition	Distribution
M0000578	Mahanalua Nui Sub-Ph3	185,925.65	Customer Addition	Distribution
M0000581	Puunene Armory-Onsite	58,862.91	Customer Addition	Distribution
M0000586	SOH DOT Relocate E58	36,474.82	Customer Addition	Distribution
M0000587	Makila Plantation Ph2	226,253.20	Customer Addition	Distribution
M0000588	Kaiser Medical Clinic	69,345.76	Customer Addition	Distribution
M0000589	Wailuku District Project C-2	61,471.27	Customer Addition	Distribution
M0000590	Palaeua Subdivision	224,009.26	Customer Addition	Distribution
M0000598	Maui Lani Subd Ph7Incr1	173,116.69	Customer Addition	Distribution
M0000599	Honualahale Subd	59,356.58	Customer Addition	Distribution
M0000600	Kehalani Offsite 69/12 Reloc.	52,284.60	Customer Addition	Distribution
M0000604	Piiholo Farms III Sub'd	54,103.72	Customer Addition	Distribution
M0000605	Makila Hydro Rehabilitation	17,968.48	Customer Addition	Distribution
M0000642	ALI'I VILLAGE SUBD	47,832.53	Customer Addition	Distribution
M0000644	Manele Res Subd-PH1A	25,408.45	Customer Addition	Distribution
M0000647	Waikapu Baseyard/Kupaa	100,895.14	Customer Addition	Distribution
M7000000 OVERHEAD SERVICES & EXTENSIONS		395,038.83	Customer Addition	Distribution
M7010000 OH SVC & EXTENSIONS		509,481.68	Customer Addition	Distribution
M7300000 MINOR POLE LINE RELOCA		176,173.69	Customer Addition	Distribution
M7900000 METERS & METERING EQUIP (RB)		356,075.07	Customer Addition	Distribution
M7910000 TRANSFORMERS & REL. EQ. (RB)		1,598,449.65	Customer Addition	Distribution
M7920000 MINOR STATE HWY PROJECTS		2,491.64	Customer Addition	Distribution
M7990000 STREET LIGHTS		11,241.86	Customer Addition	Distribution
M8000000 UNDERGROUND SERVICES & EXTNS.		1,254,214.09	Customer Addition	Distribution
M8010000 UG SERVICES & EXTENSIONS		490,408.27	Customer Addition	Distribution
M8020000 In-Kind CIAC Maui		609,115.05	Customer Addition	Distribution
M8022000 In-Kind CIAC Lanai		719,099.77	Customer Addition	Distribution
M8500000 MINOR OH-UG CONVERSIONS		24,840.77	Customer Addition	Distribution
M8900000 Other Underground Additions		253,561.27	Customer Addition	Distribution
M0000353 PMCo Distr Line Esmt		143,310.76	Customer Addition	Distribution
M0000609 Gordon Yip Relocation		29,528.65	Customer Addition	Distribution
M0000229 Lifecycle Maintenance 02-03		9,015,713.38	Customer Addition Total	
M0000280 Hand Meter Read Dev		167,995.36	Others	
		222.60	Others	

Maui Electric Co., Ltd.
 YTD Plant Additions by Project
 December 2004

5th	DESCRIPTION	SumOfAMOUNT	<u>Decoupling Category</u>	<u>Functional Category</u>
M0000396	KBY Water Line	86,820.60	Others	
M0000398	Engr Bldg Fire Sprinkler	50,558.38	Others	
M0000401	WestShop Fire Sprinkler	39,701.94	Others	
M0000405	CS Security Measures	(564.19)	Others	
M0000406	CS Computer Equip	(59.08)	Others	
M0000461	T&D/Main Offc Bldg Upgrade	123,100.11	Others	
M0000486	Mobile Radio Upgrade-Maui	40,916.54	Others	
M0000487	Molokai Phone System Upgrade	18,769.95	Others	
M0000488	MECO WAN Multiplexer	341.02	Others	
M0000503	AMR Pilot	19,416.68	Others	
M0000504	Molokai Mobile Radio Upgr	3,804.21	Others	
M0000505	Comm System Upgr-Lanai	12,589.88	Others	
M0000506	Comm System Upgr-Maui	41,985.29	Others	
M0000507	Lanai Phone System Upgr	40,382.00	Others	
M0000512	Purch/Install 3PH WECO	52,324.48	Others	
M0000530	2005 Class Load Study	236,362.25	Others	
M0000533	KBY 6" Water Line Modif	1,083.28	Others	
M0000547	Potable Water Well 17 Offsite	72,376.33	Others	
M0000559	Mobile Radio Trunking	421,296.31	Others	
M0000569	IVR Project	132,082.35	Others	
M0000603	AVAYA PBX UPGRADE	78,508.25	Others	
M0000620	Global Positioning Sys Radio	221,581.92	Others	
M0000621	KBY Env Bldg Crane	111,501.92	Others	
M9000000	Minor Communication Facilities	15,940.94	Others	
M9080000	T&D RADIO EQUIPMENT	83,513.15	Others	
M9200000	Minor Gen Plant Addn	155,234.85	Others	
M9660000	OFFICE FURN AND EQUIP ACC	20,625.26	Others	
M9661000	OFFICE FURN AND EQUIP ADMIN	17,258.27	Others	
M9662000	OFFICE FURN AND EQUIP T&D	13,009.57	Others	
M9663000	OFFICE FURN AND EQUIP PRO	16,218.00	Others	
M9664000	OFFICE FURN AND EQUIP ENG	5,617.44	Others	
M9665000	OFFICE FURN AND EQUIP CUS	3,654.82	Others	
M9666000	OFFICE FURN AND EQUIP CORP	933.55	Others	
M9800000	Vehicle Purchases	1,188,293.83	Others	
		3,493,398.06	Others Total	
M0000001	Spreckelsville Substation	(2,936.00)	Reliability	Distribution
M0000041	Waihee Village Conv	114,309.43	Reliability	Distribution
M0000084	Paia Mauka Modular Sub	5,940.94	Reliability	Distribution
M0000108	6th Increm UG Svc Repl #1	(88.99)	Reliability	Distribution
M0000112	Kokomo Circuit 1361 Conver	81,029.30	Reliability	Distribution
M0000113	E25 Papa Ave Recloser Add	25,910.77	Reliability	Distribution
M0000241	Mobile 12.5 MVA Sub	1,007,414.73	Reliability	Distribution
M0000300	Repl.Dist.Tools&Equip	38,855.63	Reliability	Distribution
M0000314	LCM-Regulators&Controllers	7,858.98	Reliability	Distribution
M0000315	LCM-Reclosures&Controllers	109,659.52	Reliability	Distribution
M0000316	LCM-Batteries&Chargers	33,114.64	Reliability	Distribution
M0000382	EMS/SCADA Virtual Charts	1,544.40	Reliability	Distribution
M0000390	Palau Sub Tsf Repl	426,182.79	Reliability	Distribution
M0000391	Puunana Sub Tsf Repl	196,009.85	Reliability	Distribution
M0000408	Keanae Sub 42 Volt Reg Repl	33,708.23	Reliability	Distribution
M0000460	Maui Marriott Autoswitch	119,827.36	Reliability	Distribution
M0000560	Sub 45 Haleakala Tsf Repl	4,866.85	Reliability	Distribution
M0000579	Valley Isle Resort-Sys	1,059.81	Reliability	Distribution
M0000619	Sys-Kaanapali Vistas	398,203.09	Reliability	Distribution
M0000633	Kaluakoi UG Main Fdr Repl Ph 1	35,067.16	Reliability	Distribution

Maui Electric Co., Ltd.
 YTD Plant Additions by Project
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5th	DESCRIPTION	SumOfAMOUN1	<u>Decoupling Category</u>	<u>Functional Category</u>
M3030000 MINOR R/W PURCH & APPRAI-MAUI	10,056.91	Reliability	Distribution	
M3032000 MINOR R/W PURCH & APPRAI-LANAI	2.50	Reliability	Distribution	
M3033000 MINOR R/W PURCH & APPRAI-MOLOKAI	2,656.25	Reliability	Distribution	
M3600000 MINOR DISTRIBUTION SS ADD	94,360.37	Reliability	Distribution	
M7750000 Other Overhead additions	1,466,370.58	Reliability	Distribution	
M8360000 Kalai Waa St Ext-ph2	(2.21)	Reliability	Distribution	
M8700000 MINOR CABLE FAILURE REPLACE.	424,356.21	Reliability	Distribution	
M9410000 TOOLS & EQUIP-T&D	175,982.98	Reliability	Distribution	
M0000126 Sub4 Revenue Metering Upgr	940.07	Reliability	G	
M0000206 RTU Comm	6,315.36	Reliability	G	
M0000399 Whse Fire Sprinkler	73,171.59	Reliability	G	
M0000550 EMS Windows Migration	56,663.44	Reliability	G	
M0000593 AM/FM - G/Electric	74,027.01	Reliability	G	
M0000594 Lanai Env Bldg@ Miki	433,442.62	Reliability	G	
M0000595 KBY Env Bldg Bay2	289,901.42	Reliability	G	
M0000181 Automatic Generation Control	(23,500.00)	Reliability	P	
M0000185 K4 Boiler Retubing	149.83	Reliability	P	
M0000295 HANA AGC	318,130.81	Reliability	P	
M0000330 MPP CEMS Dilution (14,16)	(1,635.76)	Reliability	P	
M0000331 MPP CEMS Data Logger Upgrd	(4,047.28)	Reliability	P	
M0000339 MPP Fuel/Lube Oil Piping	81,663.34	Reliability	P	
M0000395 MPP Containment Barriers	181,334.27	Reliability	P	
M0000400 Fuel Storage Fire Sprinkler	390.00	Reliability	P	
M0000416 KPP Septic System	30,286.17	Reliability	P	
M0000417 MPP Septic System	15,986.64	Reliability	P	
M0000422 K4 Static Exciter	235,319.29	Reliability	P	
M0000482 Purchase GE LM2500PE Spare Engine	239,303.87	Reliability	P	
M0000502 M14/M16 Vibration Monitor	2,880.18	Reliability	P	
M0000522 M10 Gen Pole Pc Repl	464,598.89	Reliability	P	
M0000564 M4-9 Roof	16,246.49	Reliability	P	
M0000565 Lanai Lube Oil Tank	37,132.30	Reliability	P	
M0000582 Lanai Security 2003	56,838.78	Reliability	P	
M0000583 Molokai Security 2003	60,789.66	Reliability	P	
M0000585 Hana Day Tanks	42,265.74	Reliability	P	
M0000602 M17 Opacity Monitor	34,524.10	Reliability	P	
M0000607 K4 Air Heater Baskets	118,366.90	Reliability	P	
M0000608 Water Treatment Controls Upgr	300,910.27	Reliability	P	
M0000622 M14/16 Fire Panel	62,872.37	Reliability	P	
M0000623 MPP Engine Monitoring System	46,717.41	Reliability	P	
M0000624 K3 Controls Upgrade	542,893.01	Reliability	P	
M0000641 KPP Annunicator Panels	35,595.92	Reliability	P	
M0000643 KPP #2 Fuel Oil Tank Roof	45,913.87	Reliability	P	
M0000646 MPP Entry Driveway	131,249.12	Reliability	P	
M0000649 KPP Security Addition 2004	60,404.60	Reliability	P	
M0000650 Lanai Fuel Trnsf Pump Sprinkler	41,041.75	Reliability	P	
M2600000 MPP MINOR PS ADDITIONS	38,750.82	Reliability	P	
M2601000 KPP MINOR PS ADDITIONS	136,055.12	Reliability	P	
M2602000 LPP MINOR PS ADDITION	15,917.40	Reliability	P	
M2603000 MOE MINOR PS ADDITION	52,156.52	Reliability	P	
M2794000 MIKI BASIN FO TANK #2	14,123.50	Reliability	P	
M3104000 1995 MOLOKAI GEN EXPANSION	(3,476.20)	Reliability	P	
M3140000 MPP M17-20 MW COMBUSTION TURB	(56,195.97)	Reliability	P	
M3141001 MPP M18-18MW Steam Turbine	33,833.64	Reliability	P	
M3183000 SCR DEMONSTRATION PROJECT	1,114.73	Reliability	P	
M3194000 1995 MIKI BASIN GEN EXPANSION	(4,207.23)	Reliability	P	

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5th	DESCRIPTION	SumOfAMOUN1	<u>Decoupling Category</u>	<u>Functional Category</u>
M3200000 MPP MINOR PP ADDITIONS		74,298.73	Reliability	P
M3201000 KPP MINOR PP ADDITIONS		70,244.61	Reliability	P
M3202000 LPP MINOR PP ADDITIONS		852.40	Reliability	P
M9420000 TOOLS & EQUIP-PRODUCTION		97,702.22	Reliability	P
M0000019 Damages Caused by External Party		63,259.38	Reliability	T
M0000123 Trans Syst Eq Purch-Radiator		306,148.46	Reliability	T
M0000187 Puunene Interchange Tsf Inst		62,027.74	Reliability	T
M0000200 23kV Breaker Repl-Wku Sub 3		19,420.78	Reliability	T
M0000201 23kV Breaker Repl-Kanaha Sub2		16,240.48	Reliability	T
M0000202 23kV Breaker Repl-KPP		66,940.86	Reliability	T
M0000240 Kanaha Tie Tsf Repl		296.99	Reliability	T
M0000246 Puunene 23kV Fdr Inst		8,436.38	Reliability	T
M0000259 Transm Repl Ph4		297,000.95	Reliability	T
M0000261 Transmission Ln Repl Ph 1		(559.84)	Reliability	T
M0000283 23kV Breaker Repl-Waihu Sub 36		18,355.24	Reliability	T
M0000309 MPP to Kihei Sub Pilot Wire		375,351.36	Reliability	T
M0000410 Launiupoko 69kV Ln Relo		1,785,841.22	Reliability	T
M0000468 Kuau Tsf Repl		55,355.65	Reliability	T
M0000480 23kV Brkr Repl Pukalani Sub		51,912.64	Reliability	T
M0000570 Kanaha Security Camera		986.02	Reliability	T
M0000571 Waiinu Security Camera		1,120.01	Reliability	T
M0000572 Wku Sub3 Security Camera		15,872.48	Reliability	T
M0000573 Kula Sub Security Camera		67,897.60	Reliability	T
M0000574 Pukalani/KBYSub Security Camera		(451.15)	Reliability	T
M0000576 Mill Street 69kV Reloc		1,746.06	Reliability	T
M0000592 Puunene LC-2 Repl		90,061.39	Reliability	T
M0000601 Sys 23kV Waikapu Reloc		126,803.88	Reliability	T
M0000606 Kanaha/Puk 69kV Poles		112,119.76	Reliability	T
M0000640 Koele Tsf Replacement		69,487.39	Reliability	T
M0000645 Holomua-Maliko Gulch23kV Rec		190,922.85	Reliability	T
M3300000 TRANSMISSION SUB ADDITIONS		10,864.24	Reliability	T
M3500000 MINOR TRANSM PLANT LINES		510,166.22	Reliability	T
M3544000 Kaahumanu T&D Ln Reconstruction		(0.42)	Reliability	T
	13,715,201.04	Reliability Total		
	26,224,312.48	Grand Total		

Depreciation Calculations:

	<u>Reliability Adds</u>	<u>2005 Depr %</u>	<u>2005 Depr Accrual</u>
Reliability	4,811,322.08	4.56%	219,396.29
Distribution	934,461.51	6.44%	60,179.32
General Plant	3,645,792.83	4.09%	149,112.93
Production	4,323,624.62	3.35%	144,841.42
Transmission			
Totals	13,715,201.04		573,529.96
Customer Adds	9,015,713.38	4.56%	411,116.53
Other	3,493,398.06	6.44%	224,974.84

Maui Electric Co., Ltd.
 YTD Plant Additions by Project
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5th Segment	Description	\$ Amt	Decoupling Category	Functional Category
M0000368	SOH Kuihelani Hwy Widening	4,376.71	Customer Addition	Distribution
M0000430	SOH Puunene/Mokulele Widening	121,945.84	Customer Addition	Distribution
M0000434	COM L Hpiilani Rd Pole E31	1,489.88	Customer Addition	Distribution
M0000439	Hansen-Engineering	(886.00)	Customer Addition	Distribution
M0000495	Maui Lani Parkway	65,360.23	Customer Addition	Distribution
M0000500	Kaanapali Ocean Resort Ph2	64,063.20	Customer Addition	Distribution
M0000508	Waiehu Kou Subdiv Ph3	1,102.61	Customer Addition	Distribution
M0000513	Puunoa Subdivision	(600.91)	Customer Addition	Distribution
M0000519	COM-H'Poko Well	177,676.78	Customer Addition	Distribution
M0000524	Olowalu Mauka Subdv	(5,852.00)	Customer Addition	Distribution
M0000545	Airport Indust 3 Offsite Improve	180,830.78	Customer Addition	Distribution
M0000551	Villas at Kahana Ridge	3,719.74	Customer Addition	Distribution
M0000553	Malaihi Ag Subdiv	276.53	Customer Addition	Distribution
M0000555	Lanai Residence Lots Subdiv	202,182.14	Customer Addition	Distribution
M0000561	Waiko Industrial Subdiv	10,142.17	Customer Addition	Distribution
M0000566	Sierra Emory UG Svc	177.83	Customer Addition	Distribution
M0000577	Puunene Armory-Offsite	(32,628.00)	Customer Addition	Distribution
M0000587	Makila Plantation Ph2	25.00	Customer Addition	Distribution
M0000591	Alanui Kai'imi'ike Extension	53,292.09	Customer Addition	Distribution
M0000605	Makila Hydro Rehabilitation	49,173.36	Customer Addition	Distribution
M0000610	Kehalani Module C6/C10	71,769.67	Customer Addition	Distribution
M0000611	Kehalani Subd Offsite 23kV	63,528.50	Customer Addition	Distribution
M0000612	Kehalani Subd Offsite 12kV	325,212.57	Customer Addition	Distribution
M0000613	Kehalani Subd Site 15	51,371.04	Customer Addition	Distribution
M0000614	Kehalani Subd Site 20	80,586.79	Customer Addition	Distribution
M0000615	Kehalani Subd Site 21	134,726.91	Customer Addition	Distribution
M0000616	Kehalani Subd Site 1&4	128,366.60	Customer Addition	Distribution
M0000618	Kulamalu Comm. Subd	171,165.56	Customer Addition	Distribution
M0000631	Hope Chapel	19,703.64	Customer Addition	Distribution
M0000632	Wailea Beach Villas	53,716.40	Customer Addition	Distribution
M0000634	Kulamalu Mauka Subd	50,615.35	Customer Addition	Distribution
M0000648	Cabrl Sub'd	22,844.23	Customer Addition	Distribution
M0000651	Mama's Fish House Upgrade	56,917.42	Customer Addition	Distribution
M0000653	A-American Self Storage	42,616.38	Customer Addition	Distribution
M0000655	Hertz Blower Addition	35,031.44	Customer Addition	Distribution
M0000656	COM Pookela Wells Pump	77,449.56	Customer Addition	Distribution
M0000666	BAK South Subdivision	41,611.72	Customer Addition	Distribution
M0000673	Honolua Ridge Subd Ph1	433,151.98	Customer Addition	Distribution
M0000674	Hale Kanani OS	401,949.75	Customer Addition	Distribution
M0000675	Kula Ag Park	20,884.51	Customer Addition	Distribution
M0000679	Maui Lani Kam Ave Ext2	122,959.88	Customer Addition	Distribution
M0000683	Lanai Res Lots Sub Phase 2A	33,027.45	Customer Addition	Distribution
M0000707	COM Kupa'a Well #1 Offsite	137,983.86	Customer Addition	Distribution
M0000731	Towne Realty Temp 23kV Relocation	94,719.91	Customer Addition	Distribution
M0000733	Kili Noe Subdivision	34,750.69	Customer Addition	Distribution
M7000000	Overhead Services & Extensions	323,526.11	Customer Addition	Distribution
M7010000	OH Svc & Extensions	190,751.39	Customer Addition	Distribution
M7300000	Minor Pole Line Reloca	(154,813.53)	Customer Addition	Distribution
M7900000	METERS - MECO	551,748.13	Customer Addition	Distribution
M7910000	TRANSFORMERS & REL. EQ. - MECO	1,462,385.66	Customer Addition	Distribution
M7920000	Minor State Hwy Projects	(19,295.03)	Customer Addition	Distribution
M7990000	Street Lights	35,960.63	Customer Addition	Distribution
M8000000	Underground Services & Extns.	1,203,351.71	Customer Addition	Distribution
M8010000	UG Services & Extensions	442,989.70	Customer Addition	Distribution

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5th Segment	Description	\$ Amt	Decoupling Category	Functional Category
M8020000	In-Kind CIAC Maui	5,124,429.84	Customer Addition	Distribution
M8022000	In-Kind CIAC Lanai	404,122.00	Customer Addition	Distribution
M8500000	Minor OH-UG Conversions	2,597.20	Customer Addition	Distribution
M8900000	Other Underground Additions	107,072.30	Customer Addition	Distribution
		13,277,355.90	Customer Addition Total	
M0000122	Plan/Upgrd Radio System	287.13	Others	
M0000125	MECO MW Spurs	433,914.87	Others	
M0000130	T&D/Main Offc Bldg Repairs/Upgr	16,351.16	Others	
M0000229	Lifecycle Maintenance 02-03	65,122.47	Others	
M0000402	Admin Fire Sprinkler	77,253.70	Others	
M0000461	T&D/Main Offc Bldg Upgrade	53,179.57	Others	
M0000530	2005 Class Load Study	8,565.15	Others	
M0000531	PowerTrax Customer Web Info	7,613.09	Others	
M0000533	KBY 6" Water Line Modif	281,542.73	Others	
M0000549	MECO Server Lifecycle	56,130.54	Others	
M0000559	Mobile Radio Trunking	252.14	Others	
M0000736	Field Svc Office Renovation	25,292.58	Others	
M0000737	PPE A1-Outerwear Rainwear	45,046.89	Others	
M0000738	LCM Upgrades 2005	58,623.53	Others	
M9000000	Minor Communications Facilities	17,604.63	Others	
M9080000	T&D Radio Equipment	32,855.71	Others	
M9200000	Minor Gen Plant Addn	6,006.68	Others	
M9660000	OFFICE FURN AND EQUIP ACC	2,176.54	Others	
M9661000	OFFICE FURN AND EQUIP ADMIN	13,010.58	Others	
M9662000	OFFICE FURN AND EQUIP T&D	10,148.82	Others	
M9663000	Office Furn and Equip Pro	39,124.84	Others	
M9664000	Office Furn And Equip Eng	1,139.95	Others	
M9665000	OFFICE FURN AND EQUIP CUS	2,486.69	Others	
M9800000	Vehicle Purchases	1,056,949.47	Others	
		2,310,679.46	Others Total	
M0000041	Waihee Village Conv	1,624.89	Reliability	Distribution
M0000084	Baldwin Ave Modular Sub	2,650.65	Reliability	Distribution
M0000241	Mobile 12.5 MVA Sub	13,162.49	Reliability	Distribution
M0000300	Repl.Dist.Tools&Equip	16,315.77	Reliability	Distribution
M0000314	LCM-Regulators&Controllers	5,777.36	Reliability	Distribution
M0000381	Paia Mauka Sub SCADA	25,731.98	Reliability	Distribution
M0000390	Palauu Sub Tsf Repl	63,160.01	Reliability	Distribution
M0000391	Puunana Sub Tsf Repl	11,680.18	Reliability	Distribution
M0000435	Waiehu Sub Recl/Cont Upgr	410,632.92	Reliability	Distribution
M0000460	Maui Marriott Autoswitch	3,793.43	Reliability	Distribution
M0000619	Sys-Kaanapali Vistas	411.96	Reliability	Distribution
M0000633	Kaluakoi UG Main Fdr Repl Ph 1	35,885.53	Reliability	Distribution
M0000638	Kaluakoi UG Main Fdr Repl Ph 1	310,359.37	Reliability	Distribution
M0000654	Wku Hts Swgr #2 Fuse Repl	22,006.39	Reliability	Distribution
M0000690	T&D Scada Equipment	4,859.18	Reliability	Distribution
M0000708	3-Phase Power Sys Simulator	68,458.27	Reliability	Distribution
M0000711	SYS - US Fish and Wildlife	51,720.33	Reliability	Distribution
M0000735	Maliko Substation	95,674.15	Reliability	Distribution
M3030000	Minor R/W Purch & Apprai-Maui	6,563.15	Reliability	Distribution
M3033000	Minor R/W Purch & Apprai-Molokai	1,106.25	Reliability	Distribution
M3600000	Minor Distribution SS Add	54,945.42	Reliability	Distribution
M7450000	Minor OH Fdrs & Conv	(13,867.05)	Reliability	Distribution
M7750000	Other Overhead Additions	825,391.24	Reliability	Distribution
M8700000	Minor Cable Failure Replace	252,617.35	Reliability	Distribution

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5th Segment	Description	\$ Amt	<u>Decoupling Category</u>	<u>Functional Category</u>
M9410000	Tools & Equip-T&D	149,641.28	Reliability	Distribution
M0000206	RTU Comm	(4,739.63)	Reliability	G
M0000315	LCM-Reclosures&Controllers	27,257.01	Reliability	G
M0000403	Mail Storage Bldg Fire Sprinkler	74,033.82	Reliability	G
M0000550	EMS Windows Migration	7,883.02	Reliability	G
M0000594	Lanai Env Bldg @ Miki	330.00	Reliability	G
M0000595	KBY Env Bldg Bay2	1,990.00	Reliability	G
M0000669	Waikaeakua MBL Radio Upgrade	32,335.75	Reliability	G
M0000670	Env Bldg Fire Sprinkler	113,682.76	Reliability	G
M0000672	Lahaina Security Camera	41,461.52	Reliability	G
M0000732	Molokai Substation Road Improvements	38,800.35	Reliability	G
M0000734	Computer Room A/C	17,952.00	Reliability	G
M0000185	K4 Boiler Retubing	2,876.28	Reliability	P
M0000414	KPP Improve Water Supply	525,683.86	Reliability	P
M0000416	KPP Septic System	42,034.69	Reliability	P
M0000422	K4 Static Exciter	3,490.62	Reliability	P
M0000522	M10 Gen Pole Pc Repl	12,340.54	Reliability	P
M0000523	KPP Upgr Fire System	507,918.49	Reliability	P
M0000565	Lanai Lube Oil Tank	724.31	Reliability	P
M0000602	M17 Opacity Monitor	361.51	Reliability	P
M0000608	Water Treatment Controls Upgr	12,272.16	Reliability	P
M0000622	M14/16 Fire Panel	7,468.84	Reliability	P
M0000623	MPP Engine Monitoring System	153,192.61	Reliability	P
M0000624	K3 Controls Upgrade	7,573.86	Reliability	P
M0000628	KPP DC Panel Upgrade	106,365.01	Reliability	P
M0000641	KPP Annunicator Panels	125,589.62	Reliability	P
M0000646	MPP Entry Driveway	3,541.68	Reliability	P
M0000649	KPP Security Addition 2004	11,456.28	Reliability	P
M0000650	Lanai Fuel Trnsf Pump Sprinkler	1,654.00	Reliability	P
M0000676	K3 Static Exciter	297,286.87	Reliability	P
M0000681	Lanai #4 Generator	56,007.11	Reliability	P
M0000684	Molokai Palaau Spare GSU	78,771.75	Reliability	P
M0000701	M1-3 Breakers	71,798.63	Reliability	P
M0000702	M4 & M5 Racking Mechanism	31,017.85	Reliability	P
M0000703	K3 Vibration Monitor	52,480.19	Reliability	P
M0000704	Nox Water Control Valve	54,305.04	Reliability	P
M0000705	Lanai EMD Controls Retrofit	161,403.28	Reliability	P
M0000706	Lanai Fire Dept Connection	63,756.17	Reliability	P
M0000709	K1 ID Fan	27,265.42	Reliability	P
M2600000	MPP Minor PS Additions	42,455.28	Reliability	P
M2601000	KPP Minor PS Additions	43,253.03	Reliability	P
M2603000	MOE Minor PS Addition	23,107.40	Reliability	P
M3183000	SCR DEMONSTRATION PROJECT	1,302.78	Reliability	P
M3201000	KPP Minor PP Additions	37,678.54	Reliability	P
M3202000	LPP MINOR PP ADDITION	17,220.79	Reliability	P
M9420000	Tools & Equip-Production	75,762.90	Reliability	P
M0000019	Damages Caused By External Party	54,036.64	Reliability	T
M0000093	Maa/Maa-Waiinu Relay Upgr	954.00	Reliability	T
M0000123	Trans Syst Eq Purch-Radiator	113,200.40	Reliability	T
M0000192	Wku Sub#2497-KppRelUpgr	109,307.39	Reliability	T
M0000195	Kpp#2295-Wky Relay Upgrd	111,697.66	Reliability	T
M0000200	23kV Breaker Repl-Wku Sub 3	5,041.83	Reliability	T
M0000201	23kV Breaker Repl-Kanaha Sub2	5,041.85	Reliability	T
M0000261	Transm Ln Repl Ph1	(869.00)	Reliability	T

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5th Segment	Description	\$ Amt	<u>Decoupling Category</u>	<u>Functional Category</u>
M0000283	23kV Breaker Repl-Wainiu Sub 36	5,041.83	Reliability	T
M0000309	MPP to Kihei Sub Pilot Wire	42,566.88	Reliability	T
M0000316	LCM-Batteries&Chargers	40,317.91	Reliability	T
M0000395	MPP TsF Fire Barrier	18,738.29	Reliability	T
M0000410	Launiupoko 69kv Ln Relo	1,603.82	Reliability	T
M0000451	MPP SCADA WAN	1,711.08	Reliability	T
M0000462	Waiehu Ckt 23KV Relocation	(11,605.00)	Reliability	T
M0000480	23kV Brkr Repl Pukalani Sub	1,680.61	Reliability	T
M0000601	Sys 23KV Waikapu Reloc	1,662.55	Reliability	T
M0000640	Koele TsF Replacement	25,724.71	Reliability	T
M0000645	Holomua-Maliko gulch23kV Rec	166,749.69	Reliability	T
M0000671	SCADA Weatherstations	14,758.29	Reliability	T
M0000678	Satellite Dispatch Center	240,563.54	Reliability	T
M0000685	Baldwin Pk to Holomua	526,478.22	Reliability	T
M0000695	SCADA Mapboard	201,386.78	Reliability	T
M3300000	Transmission Sub Additions	10,501.44	Reliability	T
M3500000	Minor Transm Plant Lines	106,967.49	Reliability	T
M3543000	Waiale To Sub 36 T&D Ln Reconstruction	1,337,160.40	Reliability	T
		8,561,125.79	Reliability Total	
M0000597	M12/13 BiodieselStor & Del Sys	248,932.90	Renewable	
		248,932.90	Renewable Total	
		24,398,094.05	Grand Total	

Depreciation Calculations:

	Reliability Adds	2006 Depn %	2006 Depr Accrual
Reliability	2,420,302.50	4.55%	110,123.76
Distribution	350,986.60	6.28%	22,041.96
General Plant	2,659,417.39	4.00%	106,376.70
Production	3,130,419.30	3.37%	105,495.13
Transmission			
 Totals	 8,561,125.79		344,037.55
 Customer Adds	 13,277,355.90	 4.55%	 604,119.69
 Renewable	 248,932.90	 4.00%	 9,957.32
 Other	 2,310,679.46	 6.28%	 145,110.67

Maui Electric Co., Ltd.
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5th Segment Description	\$ Amt	Decoupling Category	Functional Category
M0000060 SOH H Piilani Widening (Maalaea)	(75,022.50)	Customer Addition	Distribution
M0000430 SOH Puunene/Mokulele Widening	(46,628.71)	Customer Addition	Distribution
M0000500 Kaanapali Ocean Resort Ph2	31.69	Customer Addition	Distribution
M0000508 Waiehu Kou Subdiv Ph3	25.00	Customer Addition	Distribution
M0000519 COM-H'Pokol Well	2,925.32	Customer Addition	Distribution
M0000525 SOH H'akala Hwy Widening	189,107.73	Customer Addition	Distribution
M0000544 Kahului Airport Improve	52,006.75	Customer Addition	Distribution
M0000545 Airport Indust 3 Offsite Improve	(4,880.13)	Customer Addition	Distribution
M0000555 Lanai Residence Lots Subdiv	238.06	Customer Addition	Distribution
M0000561 Waiko Industrial Subdiv	169,524.60	Customer Addition	Distribution
M0000611 Kehalani Subd Offsite 23kV	66,441.59	Customer Addition	Distribution
M0000612 Kehalani Subd Offsite 12kV	239.98	Customer Addition	Distribution
M0000630 Lahaina Business Park -PH2	269,303.15	Customer Addition	Distribution
M0000631 Hope Chapel	24,726.01	Customer Addition	Distribution
M0000632 Wailea Beach Villas	25.00	Customer Addition	Distribution
M0000642 Ali'i Village Subd	39.23	Customer Addition	Distribution
M0000656 COM Pookela Wells Pump	15,944.35	Customer Addition	Distribution
M0000657 Sand Hills Subd	200,933.52	Customer Addition	Distribution
M0000673 Honolua Ridge Subd Ph1	739.64	Customer Addition	Distribution
M0000674 Hale Kanani OS	25,833.92	Customer Addition	Distribution
M0000675 Kula Ag Park	190,604.90	Customer Addition	Distribution
M0000683 Lanai Res Lots Sub Phase 2A	36.17	Customer Addition	Distribution
M0000707 COM Kupa'a Well #1 Offsite	46,358.35	Customer Addition	Distribution
M0000731 Towne Realty Temp 23kV Relocation	870.13	Customer Addition	Distribution
M0000740 Kehalani Offsite Reloc	44,540.44	Customer Addition	Distribution
M0000742 Lanikeha Subd - PH1	18,529.22	Customer Addition	Distribution
M0000744 Maui R and T Ph 1/Incr 1	24,032.40	Customer Addition	Distribution
M0000748 SOH Mokulele Hwy Ph1B	126,599.90	Customer Addition	Distribution
M0000760 Waikapu Gardens Ph1	100,982.73	Customer Addition	Distribution
M0000761 Kai Malu @ Wailea	196,892.50	Customer Addition	Distribution
M0000764 Mahanalua Nui Subd Ph4	233,904.03	Customer Addition	Distribution
M0000765 Kihei Kauhale Subdivision	35,954.48	Customer Addition	Distribution
M0000766 Ke Alii Kai II Subdivision	66,045.57	Customer Addition	Distribution
M0000768 Wailea MF-5 (Wailea Kanani)	113,102.09	Customer Addition	Distribution
M0000769 Honolua Ridge Ph11	319,196.19	Customer Addition	Distribution
M0000770 Kamali'i Alayna Subd	149,575.38	Customer Addition	Distribution
M0000771 Kamalii Alayna OS	122,602.68	Customer Addition	Distribution
M0000772 Maui HI Perf Computer Ctr	57,032.29	Customer Addition	Distribution
M0000778 Westin KOR Villas	64,226.80	Customer Addition	Distribution
M0000779 Waikapu Gardens PH2	159,821.35	Customer Addition	Distribution
M0000780 Maui Lani Ph7 Incr 2	164,274.90	Customer Addition	Distribution
M0000837 Kehalani Site 22 (Ohia Ph-3)	66,663.14	Customer Addition	Distribution
M0000838 Kapalua Village-Ph. 1	118,910.33	Customer Addition	Distribution
M0000839 Kai Makani Condo Offsite	121,022.60	Customer Addition	Distribution
M0000843 Maui Lani Elem School	33,191.44	Customer Addition	Distribution
M0000844 Kihei Commercial HH Reloc	26,280.97	Customer Addition	Distribution
M0000845 Land Court 960 Subdivision	53,995.52	Customer Addition	Distribution
M0000851 Waikapu Gardens Ph3	42,397.53	Customer Addition	Distribution
M0000852 Kai Makani Condo's Onsite	16,035.50	Customer Addition	Distribution
M0000855 Keokea Five LLC	44,062.75	Customer Addition	Distribution
M7000000 Overhead Services & Extensions	398,921.63	Customer Addition	Distribution
M7010000 OH Svc & Extensions	20,040.69	Customer Addition	Distribution
M7300000 Minor Pole Line Reloca	18,358.24	Customer Addition	Distribution
M7900000 METERS - MECO	860,512.77	Customer Addition	Distribution

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5th Segment Description	\$ Amt	Decoupling Category	Functional Category
M7910000 TRANSFORMERS & REL. EQ. - MECO	2,346,524.93	Customer Addition	Distribution
M7920000 Minor State Hwy Projects	27,391.59	Customer Addition	Distribution
M7961000 SOH Honoapiilani Widening Kaa	(314,772.00)	Customer Addition	Distribution
M7990000 Street Lights	45,561.56	Customer Addition	Distribution
M8000000 Underground Services & Extns.	1,471,675.33	Customer Addition	Distribution
M8010000 UG Services & Extensions	669,552.20	Customer Addition	Distribution
M8020000 In-Kind CIAC Maui	6,995,787.96	Customer Addition	Distribution
M8500000 Minor OH-UG Conversions	16,981.24	Customer Addition	Distribution
M8900000 Other Underground Additions	178,457.63	Customer Addition	Distribution
M0000353 PMCo Distr Line Esmt	(14,564.50)	Customer Addition	Distribution
	16,369,725.75	Customer Addition Total	
M0000125 MECO MW Spurs	4,156.16	Others	
M0000229 Lifecycle Maintenance 02-03	17,740.60	Others	
M0000461 T&D/Main Offc Bldg Upgrade	23,047.94	Others	
M0000487 Molokai Phone System Upgrade	(12.45)	Others	
M0000559 Mobile Radio Trunking	85.39	Others	
M0000737 PPE 1A-Outerwear Rainwear	133.12	Others	
M0000743 Aud.Grease Interceptor	34,902.41	Others	
M0000753 Cable Diagnostic Package Sys	30,284.66	Others	
M0000754 Test Boards & warm-up Boards	111,730.33	Others	
M0000756 MECO Network LC 2006	39,220.68	Others	
M0000840 CustSvc 2006 Renovation	51,603.27	Others	
M9000000 Minor Communications Facilities	20,017.49	Others	
M9080000 T&D Radio Equipment	5,262.95	Others	
M9200000 Minor Gen Plant Addn	846.06	Others	
M9660000 OFFICE FURN AND EQUIP ACC	6,646.81	Others	
M9661000 OFFICE FURN AND EQUIP ADMIN	23,627.01	Others	
M9662000 OFFICE FURN AND EQUIP T&D	4,732.32	Others	
M9663000 Office Furn and Equip Pro	2,697.66	Others	
M9664000 Office Furn and Equip Eng	6,330.71	Others	
M9665000 OFFICE FURN AND EQUIP CUS	4,363.42	Others	
M9666000 Office Furn and Equip Corp	6,441.43	Others	
M9800000 Vehicle Purchases	14,238.84	Others	
	408,096.81	Others Total	
M0000041 Waihee Village Conv	141,097.45	Reliability	D
M0000300 Repl.Dist.Tools&Equip	40,250.70	Reliability	D
M0000315 LCM-Reclosures & Controllers	42,639.84	Reliability	D
M0000390 Palaau sub Tsf Repl	1,581.65	Reliability	D
M0000391 Puunana Sub Tsf Repl	279.12	Reliability	D
M0000435 Waiehu Sub Recl/Cont Upgr	10,889.91	Reliability	D
M0000489 Sub 93 Site Acquisition	32,883.28	Reliability	D
M0000638 Kaluakoi UG Main Fdr Repl Ph 1	1,109.22	Reliability	D
M0000730 Sub 36 Unit 3 Tsf Addn	966,508.86	Reliability	D
M0000752 Dist-Radiator MPP Spare Replace	98,721.33	Reliability	D
M0000814 Power Factor Tester	39,888.66	Reliability	D
M0000836 2006 48vBat&Chgr&Rclr Bat	23,179.28	Reliability	D
M0000849 2006 Reclosers&Relays	65,743.82	Reliability	D
M3030000 Minor R/W Purch & Apprai-Maui	3,866.93	Reliability	D
M3033000 Minor R/W Purch & Apprai-Molokai	312.50	Reliability	D
M3600000 Minor Distribution SS Add	39,427.20	Reliability	D
M7750000 Other Overhead Additions	1,248,992.10	Reliability	D
M8700000 Minor Cable Failure Replace	399,361.88	Reliability	D

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<u>5th Segment Description</u>	<u>\$ Amt</u>	<u>Decoupling Category</u>	<u>Functional Category</u>
M9058000 Molokai SCADA System	(3,544.00)	Reliability	D
M9410000 Tools & Equip-T&D	113,423.32	Reliability	D
M0000126 Sub4 Revenue Metering Upgr	8,525.45	Reliability	G
M0000596 ICS Radio Replacement	373,656.10	Reliability	G
M0000670 Env Bldg Fire Sprinkler	7,141.50	Reliability	G
M0000414 KPP Improve Water Supply	23,432.47	Reliability	P
M0000523 KPP Upgr Fire System	60,093.57	Reliability	P
M0000626 M11 Generator Pole Piece Rep	470,934.76	Reliability	P
M0000676 K3 Static Exciter	12,546.65	Reliability	P
M0000703 K3 Vibration Monitor	9,882.71	Reliability	P
M0000705 Lanai EMD Controls Retrofit	27,729.30	Reliability	P
M0000706 Lanai Fire Dept Connection	399.44	Reliability	P
M0000722 M14 CEMS Replacement	166,544.12	Reliability	P
M0000723 M16 CEMS Replacement	165,450.21	Reliability	P
M0000726 K4 Vibration Monitor	19,551.38	Reliability	P
M0000757 K1-4 Synchronizer	36,799.07	Reliability	P
M0000759 #1 Fuel Oil Tank roof	49,425.98	Reliability	P
M0000762 GT1 Exhaust	24,317.34	Reliability	P
M0000763 MGC Borescope	43,724.16	Reliability	P
M0000776 KPP Scaffolds	19,166.76	Reliability	P
M0000866 E-Cell Stacks	84,565.36	Reliability	P
M2600000 MPP Minor PS Additions	3,592.32	Reliability	P
M2601000 KPP Minor PS Additions	71,963.00	Reliability	P
M2602000 LPP Minor PS Additions	39,719.54	Reliability	P
M2603000 MOE Minor PS Addition	4,726.64	Reliability	P
M3141001 MPP M18-18Mw Steam Turbine	60,889,910.92	Reliability	P
M3183000 SCR DEMONSTRATION PROJECT	397.58	Reliability	P
M3201000 KPP Minor PP Additions	4,721.58	Reliability	P
M9420000 Tools & Equip-Production	42,153.87	Reliability	P
M0000012 Wainu Sub 36 Unit Sub/69kv Brkr Addn	2,088,742.01	Reliability	T
M0000019 Damages Caused By External Party	42,341.28	Reliability	T
M0000029 Minor UG Trans Addn	17,696.42	Reliability	T
M0000093 Maa/Maa-Wainu Relay Upgr	243.46	Reliability	T
M0000195 Kpp#2295-Wky Relay Upgrd	6,848.00	Reliability	T
M0000316 LCM-Batteries&Chargers	13,819.00	Reliability	T
M0000601 Sys 23KV Waikapu Reloc	(19,528.00)	Reliability	T
M0000645 Holomua-Maliko gulch23kV Rec	4,984.51	Reliability	T
M0000677 Alternate Dispatch	863,259.92	Reliability	T
M0000678 Satellite Dispatch Center	3,251.17	Reliability	T
M0000682 Hana SCADA/FIBER	335,415.86	Reliability	T
M0000685 Baldwin Pk to Holomua	157,759.95	Reliability	T
M0000695 SCADA Mapboard	25,479.46	Reliability	T
M0000712 Kihei Sub 35 Replace Tsf 2	519,639.25	Reliability	T
M0000714 Kihei Sub 35 Replace Tsf 1	529,455.20	Reliability	T
M0000715 Kah Sub Tsf 8-3 Replace	612,304.56	Reliability	T
M0000755 CKT 1397 SEL351 Upgrade	44,856.23	Reliability	T
M3300000 Transmission Sub Additions	27,408.99	Reliability	T
M3500000 Minor Transm Plant Lines	232,363.05	Reliability	T
M3543000 Waiale To Sub 36 T&D Ln Reconstruction	(196,815.54)	Reliability	T
M3544000 Kaahumanu T&D Ln Reconstruction	(76,150.00)	Reliability	T
M7761000 Minor Storm Damage Repairs	4,349.87	Reliability	T
		71,165,409.48 Reliability Total	
M0000739 Makila Hydro	17,383.24	Renewable	

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5th Segment Description	\$ Amt	Decoupling Category	Functional Category
M0000867 KWP 1 Wind Farm	511,321.82	Renewable	
M0000868 Makila Hydro Interconnection	37,434.29	Renewable	
M0000597 M12/13 BiodieselStor & Del Sys	(25.72)	Renewable	
		566,113.63	Renewable Total
		88,509,345.67	Grand Total

Depreciation Calculations:

	Reliability Adds	2007 Depn %	2007 Depr Accrual
Reliability:			
Distribution	3,266,613.05	4.53%	147,977.57
General Plant	389,323.05	6.27%	24,410.56
Production	62,271,748.73	3.41%	2,123,466.63
Transmission	5,237,724.65	3.36%	175,987.55
Total Reliability	71,165,409.48		2,471,842.31
Customer Adds	16,369,725.75	4.53%	741,548.58
Renewable:	Renew Adds	2007 Depn %	2007 Depr Accrual
Distribution	54,817.53	4.53%	2,483.23
General Plant	-	6.27%	-
Production	(25.72)	3.41%	(0.88)
Transmission	511,321.82	3.36%	17,180.41
Total Renewables	566,113.63		19,662.77
Other	408,096.81	6.27%	25,587.67

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<u>5th Segment</u>	<u>Description</u>	<u>\$Amount</u>	<u>Decoupling Category</u>	<u>Functional Category</u>
M0000053	KAPALUA CENTRAL SUBD-ENGINEERIN	(8.91)	Customer Addition	Distribution
M0000060	SOH H Piilani Widening (Maalaea)	0.31	Customer Addition	Distribution
M0000425	PW: The Pinnacle (Constr)	(244.71)	Customer Addition	Distribution
M0000426	5P: Lahaina Recreation Ctr Exp	(254.64)	Customer Addition	Distribution
M0000430	SOH Puunene/Mokulele Widening	(346.22)	Customer Addition	Distribution
M0000434	COM L Hpiilani Rd Pole E31	1,151.57	Customer Addition	Distribution
M0000436	PW: Maunaolu Ag Subdivision, Design	(41.18)	Customer Addition	Distribution
M0000438	PW: Wailuku Country Estate Subdiv C	(87.49)	Customer Addition	Distribution
M0000441	PW: Kihei Commercial-Const Install	(20.25)	Customer Addition	Distribution
M0000442	PW: HONOLUA DORMS LINE RELOCATION-	(29.24)	Customer Addition	Distribution
M0000453	5P: Kilohana Hema Subdivision	(10.58)	Customer Addition	Distribution
M0000454	5P: Manale Subdv Ph-1B	(67.49)	Customer Addition	Distribution
M0000457	PW: KARL HEYER -- CONSTR INSTALL	(30.33)	Customer Addition	Distribution
M0000459	PW: FAGERHOLM SUBDIVISION-CONST (O	(6.10)	Customer Addition	Distribution
M0000463	PW: Piilani Gardens (Auth), Constr	(18.93)	Customer Addition	Distribution
M0000464	5P: Makila Plantation Subdivision	(1.74)	Customer Addition	Distribution
M0000465	5P: Kapua Village Subdiv	(21.76)	Customer Addition	Distribution
M0000470	5P: Sky Lewis Line Ext	(568.75)	Customer Addition	Distribution
M0000475	5P: MF-21 Subdivision	(40.87)	Customer Addition	Distribution
M0000476	5P: N. Shore Village Subdivision	(7.74)	Customer Addition	Distribution
M0000495	PW: Maui Lani Pkwy-Engineering	(10.84)	Customer Addition	Distribution
M0000508	Waiehu Kou Subdiv Ph3	(51.35)	Customer Addition	Distribution
M0000519	COM-H'Pokol Well	10,119.64	Customer Addition	Distribution
M0000524	5P: Olowalu Mauka Subdv	(21.36)	Customer Addition	Distribution
M0000525	SOH H'akala Hwy Widening	882.39	Customer Addition	Distribution
M0000544	Kahului Airport Improve	(5.86)	Customer Addition	Distribution
M0000545	Airport Indust 3 Offsite Improve	(6.92)	Customer Addition	Distribution
M0000553	5P: Malaihi Ag Subdiv	(6.73)	Customer Addition	Distribution
M0000554	COM-Lanai Police Station	(2,004.50)	Customer Addition	Distribution
M0000555	Lanai Residence Lots Subdiv	(175.23)	Customer Addition	Distribution
M0000561	Waiko Industrial Subdiv	(2,557.22)	Customer Addition	Distribution
M0000566	5P: Sierra Emory UG Svc	(35.67)	Customer Addition	Distribution
M0000567	5P: Waiolani Elua Subdiv	(16.70)	Customer Addition	Distribution
M0000568	5P: Maui Lani Bluffs Subdiv	(0.24)	Customer Addition	Distribution
M0000577	PW: Puunene Armory-Army NG Offsite	(6.10)	Customer Addition	Distribution
M0000578	5P: Mahanalua Nui Sub-Ph3	(23.09)	Customer Addition	Distribution
M0000581	PW: Puunene Armory-Army NG/Onsite ((53.71)	Customer Addition	Distribution
M0000587	Makila Plantation Ph2	(766.02)	Customer Addition	Distribution
M0000589	5P: Wailuku District Project C-2	(45.98)	Customer Addition	Distribution
M0000590	5P: Palaea Subdivision	(43.62)	Customer Addition	Distribution
M0000591	5P: Alanui Kai'imi'ike Extension	(126.72)	Customer Addition	Distribution
M0000598	PW: Maui Lani Ph 7 - Incr 1, AUTH -	(22.57)	Customer Addition	Distribution
M0000599	PW: Honualahahe Subdivision, AUTH -	(79.27)	Customer Addition	Distribution
M0000604	5P: Piilohol Farms II Sub'd	(1.82)	Customer Addition	Distribution
M0000605	5P: Mikila Hydro Rehabilitation	(201.89)	Customer Addition	Distribution
M0000610	5P: Kehalani Module C6/C10	(1.82)	Customer Addition	Distribution
M0000612	Kehalani Subd Offsite 12kV	(956.34)	Customer Addition	Distribution
M0000613	5P: Kehalani Subd Site 15	(26.60)	Customer Addition	Distribution
M0000614	Kehalani Subd Site 20	(326.66)	Customer Addition	Distribution
M0000615	Kehalani Subd Site 21	(190.59)	Customer Addition	Distribution
M0000616	5P: Kehalani Subd Site 1&4	(21.05)	Customer Addition	Distribution
M0000617	Nahiku Subdivision	161,267.70	Customer Addition	Distribution
M0000630	Lahaina Business Park -PH2	(87.85)	Customer Addition	Distribution
M0000632	Wailea Beach Villas	(5.61)	Customer Addition	Distribution

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<u>5th Segment</u>	<u>Description</u>	<u>\$Amount</u>	<u>Decoupling Category</u>	<u>Functional Category</u>
M0000634	PW: KULAMALU MAUKA COMM SUBDIV ENI	(3.52)	Customer Addition	Distribution
M0000642	Alii Village Subd	(19.48)	Customer Addition	Distribution
M0000644	5P: ManeleRes Subd-Ph1A	(3.65)	Customer Addition	Distribution
M0000647	5P: Waikapu Baseyard/Kupaa	(297.89)	Customer Addition	Distribution
M0000651	Mama's Fish House Upgrae	(60.91)	Customer Addition	Distribution
M0000652	SOH: Molokai Kawaipu Bridge UA #1678	26,522.66	Customer Addition	Distribution
M0000653	PW: A-AMERICAN SELF STORAGE CTR/COI	(3.40)	Customer Addition	Distribution
M0000655	PW: HERTZ BLOWER SYS ADDN/ENG'G	(12.84)	Customer Addition	Distribution
M0000656	COM Pookela Wells Pump	(19.28)	Customer Addition	Distribution
M0000657	Sand Hills Subd	(9.65)	Customer Addition	Distribution
M0000666	5P: BAK South Subdivision	(9.73)	Customer Addition	Distribution
M0000673	Honolua Ridge Sub'd-PH1	(395.22)	Customer Addition	Distribution
M0000674	Hale Kanani OS	(4,006.03)	Customer Addition	Distribution
M0000683	Lanai Res Lots Sub Phase 2A	(15.13)	Customer Addition	Distribution
M0000707	COM Kupa'a Well #1 Offsite	(114.58)	Customer Addition	Distribution
M0000733	Kill Noe Subdivision	(940.74)	Customer Addition	Distribution
M0000740	Kehalani Offsite Reloc	(5.17)	Customer Addition	Distribution
M0000742	Lanikeha Subd - PH1	953,370.49	Customer Addition	Distribution
M0000744	Maui R and T Ph 1/Iincr 1	(6.25)	Customer Addition	Distribution
M0000748	SOH Mokulele Hwy Ph1B	(2,370.64)	Customer Addition	Distribution
M0000760	Waikapu Gardens Ph1	(4.19)	Customer Addition	Distribution
M0000761	Kai Malu @ Wailea	(20.71)	Customer Addition	Distribution
M0000765	Kihei Kauhale Subdivision	546.27	Customer Addition	Distribution
M0000766	Ke Alii Kai II Subdivision	(125.70)	Customer Addition	Distribution
M0000768	Wailea MF-5 (Wailea Kanani)	(10.06)	Customer Addition	Distribution
M0000770	Kamali'i Alayna Subd	(0.03)	Customer Addition	Distribution
M0000771	Kamalii Alayna OS	1,843.85	Customer Addition	Distribution
M0000778	Westin KOR Villas	42.06	Customer Addition	Distribution
M0000779	Waikapu Gardens Ph2	(423.74)	Customer Addition	Distribution
M0000780	Maui Lani Ph7 Incr 2	23,901.69	Customer Addition	Distribution
M0000781	Peahi Farms Offsite	701,741.60	Customer Addition	Distribution
M0000829	Ke Alii Villas	156,501.71	Customer Addition	Distribution
M0000838	Kapalua Village Ph1	(0.72)	Customer Addition	Distribution
M0000839	Kai Makani Condo Offsite	3,619.84	Customer Addition	Distribution
M0000842	Waiohuli Hikina Subdivision	171,768.34	Customer Addition	Distribution
M0000843	Maui Lani Elem School	(65.43)	Customer Addition	Distribution
M0000844	Kihel Commercial HH Reloc	1,202.98	Customer Addition	Distribution
M0000845	Land Court 960 Subdivision	165,928.25	Customer Addition	Distribution
M0000846	Highlands Estates Well Pump	109,570.11	Customer Addition	Distribution
M0000847	Kilohana Waena Subdivision	219,761.33	Customer Addition	Distribution
M0000848	The Courts at Lanai City	51,388.42	Customer Addition	Distribution
M0000852	Kai Makani Condo's Onsite	78,666.09	Customer Addition	Distribution
M0000853	Caputo - OH to UG Conversion	171,259.93	Customer Addition	Distribution
M0000854	Kihei Commercial Condo	99,172.41	Customer Addition	Distribution
M0000855	Keokea Five LLC	(1,732.31)	Customer Addition	Distribution
M0000857	St Francis Onsite	203,970.97	Customer Addition	Distribution
M0000858	Wailani Pikake Sub'd	201,853.98	Customer Addition	Distribution
M0000859	Papali Wailea	67,680.98	Customer Addition	Distribution
M0000860	Waiehu Kou 4 Sub'd	222,118.04	Customer Addition	Distribution
M0000863	E Paepae Sub'd	214,718.04	Customer Addition	Distribution
M0000869	Maui Lani Subd Ph7 Incr3	810,054.99	Customer Addition	Distribution
M0000874	Maui Oil Ofc Bldg/Car Wash	37,318.93	Customer Addition	Distribution
M0000875	Kehalani Mauka Parkway Ext.	458,682.14	Customer Addition	Distribution
M0000877	Waiehu Kou Subd Ph 4 Offsite	34,673.85	Customer Addition	Distribution

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5th Segment	Description	\$Amount	<u>Decoupling Category</u>	Functional Category
M0000878	Waikapu Gardens Ph4	610,917.99	Customer Addition	Distribution
M0000883	Flannery Offsite Project	103,745.65	Customer Addition	Distribution
M0000885	SOH Mokulele Hwy PH1A/UA	18,134.50	Customer Addition	Distribution
M0000886	Kanepu'u	108,961.23	Customer Addition	Distribution
M0000889	Kehalani South Collector	443,991.89	Customer Addition	Distribution
M0000890	Lanikeha Sub'd-PH2	500,402.51	Customer Addition	Distribution
M0000892	Manele Bay Small Boat Harbor	35,987.28	Customer Addition	Distribution
M0000896	Waiolani Mauka Sub'd	265,209.45	Customer Addition	Distribution
M0000897	Ho'olei Wailea Condo MF-9	247,152.83	Customer Addition	Distribution
M0000898	WO: Hokulani Golf Villas-In-Kind Cl	988,626.60	Customer Addition	Distribution
M0000899	Lahaina Gateway	64,922.15	Customer Addition	Distribution
M0000900	Consolidated Bsyd 69/23Kv	100,443.26	Customer Addition	Distribution
M0000938	PW: Waikapu Gardens Ph5 In-Kind Cl	478,452.34	Customer Addition	Distribution
M0000943	Kehalani Site 10 Sub'd	310,794.59	Customer Addition	Distribution
M0000949	5P: Wailea Upper Level Water Sys	37,356.03	Customer Addition	Distribution
M0000950	5P: HR Auhana Subdivision	29,626.08	Customer Addition	Distribution
M0000951	5P: Maha Wao Subdivision	45,720.38	Customer Addition	Distribution
M0000952	5P: Kahalani Site 11, Ph. 1 & 2	171,934.50	Customer Addition	Distribution
M0000955	5P: Pier 2 Relocation	42,615.47	Customer Addition	Distribution
M0000961	WO: Ritz Carlton UG Reloc In-Kind	104,793.01	Customer Addition	Distribution
M0000989	Peahi Farms Onsite	976,814.87	Customer Addition	Distribution
M0000999	Maui R&T Park Ext	75,796.62	Customer Addition	Distribution
M7000000	Overhead Services & Extensions	427,313.02	Customer Addition	Distribution
M7010000	OH Svc & Extensions	281,132.57	Customer Addition	Distribution
M7300000	Minor Pole Line Reloca	123,600.92	Customer Addition	Distribution
M7900000	METERS - MECO	674,144.10	Customer Addition	Distribution
M7910000	TRANSFORMERS & REL. EQ. - MECO	2,664,838.04	Customer Addition	Distribution
M7920000	Minor State Hwy Projects	83.01	Customer Addition	Distribution
M7990000	Street Lights	128,900.22	Customer Addition	Distribution
M8000000	Underground Services & Extns.	1,794,111.70	Customer Addition	Distribution
M8010000	UG Services & Extensions	521,875.07	Customer Addition	Distribution
M8500000	Minor OH-UG Conversions	49,209.40	Customer Addition	Distribution
M8900000	Other Underground Additions	194,428.03	Customer Addition	Distribution
M0000353	PMCo Distr Line Esmt	(1,240.76)	Customer Addition	Distribution
M0000547	5P: Potable Water Well 17 Offsite	(135.62)	Customer Addition	Distribution
M0000601	Sys 23kV Waikapu Reloc	(121.47)	Customer Addition	Distribution
M0000609	5P: Gordon Yip Relocation	(90.26)	Customer Addition	Distribution
		17,961,384.90	Customer Addition Total	
M0000229	Lifecycle Maintenance 02-03	45,506.04	Others	
M0000461	T&D/Main Offc Bldg Upgrade	27,954.82	Others	
M0000531	PowerTrax Customer Web Info	9,142.60	Others	
M0000533	KBY 6" Water Line Modif	733.47	Others	
M0000813	MW Antenna Analyzer	25,106.88	Others	
M0000840	CustSvc 2006 Renovation	(16,305.27)	Others	
M0000850	SF6 Recovery System	24,609.64	Others	
M0000864	Emergency Communications	22,311.44	Others	
M9000000	Minor Communication Facilities	(265.00)	Others	
M9083000	5P: Mobile Radio Repl	9,931.01	Others	
M9660000	OFFICE FURN AND EQUIP ACC	9,470.88	Others	
M9661000	OFFICE FURN AND EQUIP ADMIN	15,177.65	Others	
M9662000	OFFICE FURN AND EQUIP T&D	3,153.28	Others	
M9663000	Office Furn and Equip Pro	28,300.63	Others	
M9664000	Office Furn and Equip Eng	3,772.44	Others	
M9665000	OFFICE FURN AND EQUIP CUS	5,684.29	Others	

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5th Segment	Description	\$Amount	<u>Decoupling Category</u>	<u>Functional Category</u>
M9800000	Vehicle Purchases	573,982.18	Others	
		788,266.98	Others Total	
M0000111	Peahi Sub 94	591,714.80	Reliability	Distribution
M0000118	Koole Sub 301 Tsf Repl	(2.00)	Reliability	Distribution
M0000300	Repl.Dist.Tools&Equip	56,403.19	Reliability	Distribution
M0000316	LCM-Batteries&Chargers	38,481.86	Reliability	Distribution
M0000390	Palau Sub Tsf Repl	2,396.51	Reliability	Distribution
M0000391	Puunana Sub Tsf Repl	685.27	Reliability	Distribution
M0000460	5P: System Maui Marriott Autoswitch	(253.72)	Reliability	Distribution
M0000690	PW: 12/5/07 STORM MAUI DIST OH TSF	6,324.46	Reliability	Distribution
M0000730	Sub 36 Unit 3 Tsf Addn	42,752.98	Reliability	Distribution
M0000735	5P: Maliko Subdivision	(41.39)	Reliability	Distribution
M0000807	Mahinahina Sub 50 Repl Tsf 2	719,456.40	Reliability	Distribution
M0000819	LCM - Substation Equipment	114,256.55	Reliability	Distribution
M0000835	12th Inc. Reconduct Ani St.	127,305.67	Reliability	Distribution
M0000871	Trans-Radiator K1	59,478.08	Reliability	Distribution
M0000876	Sys Upgrade 7.2 kV Waiko Rd	43,456.69	Reliability	Distribution
M0000881	Huelo Distr Upgrade	116,440.65	Reliability	Distribution
M3030000	Minor R/W Purch & Apprai-Maui	(968.20)	Reliability	Distribution
M3032000	MINOR R/W PURCH & APPRAI-LANAI	153.91	Reliability	Distribution
M3033000	MINOR R/W PURCH & APPRAI-MOLOKAI	322.05	Reliability	Distribution
M3600000	Minor Distribution SS Add	18,623.42	Reliability	Distribution
M7750000	Other Overhead Additions	1,441,852.30	Reliability	Distribution
M8700000	Minor Cable Failure Replace	360,710.63	Reliability	Distribution
M8980000	Makena CKT 1395 Extension	643,248.78	Reliability	Distribution
M0000126	Sub4 Revenue Metering Upgr	45,565.12	Reliability	G
M0000682	HANA SCADA/FIBER	4,211.39	Reliability	G
M0000822	5P: Admin Transfer Switch	40,551.04	Reliability	G
M9410000	Tools & Equip-T&D	107,326.37	Reliability	G
M0000423	K1 Generator Rotor Rewind	408,511.92	Reliability	P
M0000523	KPP Upgr Fire System	25,371.00	Reliability	P
M0000558	K1 Generator Stator Rewind	372,030.65	Reliability	P
M0000629	M14 CT Controls	693,088.16	Reliability	P
M0000722	M14 CEMS Replacement	93,191.14	Reliability	P
M0000723	M16 CEMS Replacement	93,565.67	Reliability	P
M0000724	K1 Static Exciter	186,959.40	Reliability	P
M0000725	K2 Static Exciter	202,838.52	Reliability	P
M0000750	KPP UPS Battery Charger	34,789.18	Reliability	P
M0000783	KPP Tank#4 Roof	48,177.26	Reliability	P
M0000784	5P: KPP Welding Lean to	10,420.00	Reliability	P
M0000786	5P: MPP Fuel Oil Transfer Pumps	14,752.68	Reliability	P
M0000820	Lanai Env Bldg Firesprinkler	41,673.77	Reliability	P
M0000865	MPP Security Camera Systems	52,338.47	Reliability	P
M0000879	M19 Hydraulic Starter Motor	68,184.02	Reliability	P
M0000962	5P: MPP Glegg WWT System Pump	27,081.27	Reliability	P
M2600000	MPP Minor PS Additions	58,568.36	Reliability	P
M2601000	KPP Minor PS Additions	7,350.02	Reliability	P
M2602000	LPP Minor PS Additions	13,561.54	Reliability	P
M2603000	MOE Minor PS Addition	18,609.96	Reliability	P
M3141001	MPP M18-18Mw Steam Turbine	2,759,316.50	Reliability	P
M3183000	SCR DEMONSTRATION PROJECT	21.65	Reliability	P
M3200000	MPP Minor PP Additions	62,780.95	Reliability	P
M3201000	KPP MINOR PP ADDITIONS	27,273.58	Reliability	P
M3202000	LPP MINOR PP ADDITIONS	4,803.19	Reliability	P

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5th Segment	Description	\$Amount	<u>Decoupling Category</u>	Functional Category
M9420000	Tools & Equip-Production	22,721.06	Reliability	P
M0000012	Waiinu Sub 36 Unit Sub/69kv Brkr Addn	38,210.84	Reliability	T
M0000019	Damages Caused By External Party	5,416.34	Reliability	T
M0000029	Minor UG Trans Addn	2,095.09	Reliability	T
M0000121	5P: Peahi Regulator Repl	(9.34)	Reliability	T
M0000196	5P: Lah-Lah Makai Napili Relay Upgr	23.59	Reliability	T
M0000201	5P: 23kV Brkr Repl-Ph2	(134.16)	Reliability	T
M0000202	SP: 23kV Brkr Repl - KPP	515.96	Reliability	T
M0000260	Transm Repl Ph3	(1,101.00)	Reliability	T
M0000410	PW: Launiupoko Reloc-Engineering	(779.19)	Reliability	T
M0000576	PW: SYSTEM - 69KV Reloc Mill St Lah	(24.86)	Reliability	T
M0000685	Baldwin Pk to Holomua	686.66	Reliability	T
M0000687	Kanaha Tsf #B Replacement	1,088,173.14	Reliability	T
M0000695	SCADA Mapboard	378.66	Reliability	T
M0000712	Kihei Sub 35 Replace Tsf 2	868.32	Reliability	T
M0000714	Kihei Sub 35 Replace Tsf 1	833.22	Reliability	T
M0000715	Kah Sub Tsf 8-3 Replace	4,500.00	Reliability	T
M0000716	Install Viper-E25 Onehee Ave	10,501.14	Reliability	T
M0000880	Repair Order RQ008241	48,706.90	Reliability	T
M3500000	Minor Transm Plant Lines	409,863.49	Reliability	T
M3540000	Kaahumanu 23kv pole replacement	687.38	Reliability	T
M3543000	Waiale To Sub 36 T&D Ln Reconstruction	260.70	Reliability	T
M3544000	Kaahumanu T&D Ln Reconstruction	(43.81)	Reliability	T
M3550000	5P: Hana 23KV Reconstruction 2000	(2,158.63)	Reliability	T
		11,535,903.17	Reliability Total	
M0000867	KWP 1 Wind Farm	1,029.96	Renewable	
M0000868	Makila Hydro Interconnection	8,517.28	Renewable	
		9,547.24	Renewable Total	
		30,295,102.29	Grand Total	

Depreciation Calculations:

	Reliability Adds	2008 Depn %	2008 Depr Accrual
Reliability	4,382,798.89	4.53%	198,540.79
Distribution	197,653.92	6.31%	12,471.96
General Plant	5,347,979.92	3.56%	190,388.09
Production	1,607,470.44	3.35%	53,850.26
Transmission			
Total Reliabilty	11,535,903.17		455,251.10
Customer Adds	17,961,384.90	4.53%	813,650.74
Renewables:			
Distribution	8,517.28	4.53%	385.83
General Plant		6.31%	-
Production		3.56%	-
Transmission	1,029.96	3.35%	34.50
Total Renewables	9,547.24		420.34
Other	788,266.98	6.31%	49,739.65

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5th Segment: Description	\$Amount	<u>Decoupling</u>	<u>Category</u>	<u>Functional Category</u>
M0000525 SOH H'akala Hwy Widening	24,466.60	Customer Addition	Distribution	
M0000555 Lanai Residence Lots Sub'd	765.00	Customer Addition	Distribution	
M0000561 Waiko Industrial Subiv	613.30	Customer Addition	Distribution	
M0000586 SOH DOT Relocate E58	(3,111.00)	Customer Addition	Distribution	
M0000647 Waikapu Baseyard	(18,773.00)	Customer Addition	Distribution	
M0000652 SOH: Molokai Kawaikapu Bridge UA#1678	22,989.66	Customer Addition	Distribution	
M0000675 Kula Ag Park	267.38	Customer Addition	Distribution	
M0000680 County of Maui-Mkt St Impvts	121,224.97	Customer Addition	Distribution	
M0000697 69kV Reloc Waikapu	1,954,655.51	Customer Addition	Distribution	
M0000742 Lanikeha Sub'd-PH1	3,030.24	Customer Addition	Distribution	
M0000748 SOH Mokulele Hwy PH1B	72.20	Customer Addition	Distribution	
M0000781 Peahi Farms Offsite	5,293.09	Customer Addition	Distribution	
M0000857 St Francis Onsite	30,221.84	Customer Addition	Distribution	
M0000863 E Paepae Sub'd	(927.00)	Customer Addition	Distribution	
M0000872 Ukumehame Ag Sub'd	692,375.15	Customer Addition	Distribution	
M0000873 Kaanapali Dev Corp Pole Relo	87,088.46	Customer Addition	Distribution	
M0000882 Phil Christopher	45,787.69	Customer Addition	Distribution	
M0000884 Honua Kai Ph. 1	103,714.99	Customer Addition	Distribution	
M0000885 SOH Mokulele Hwy PH1A/UA	131,074.85	Customer Addition	Distribution	
M0000886 Kanepu'u	(6,281.84)	Customer Addition	Distribution	
M0000887 Pioneer Farms Ag Subdivision	424,944.53	Customer Addition	Distribution	
M0000888 Ukumehame Ag Sub'd Offsite	304,666.44	Customer Addition	Distribution	
M0000889 Kehalani South Collector	53.52	Customer Addition	Distribution	
M0000890 Lanikeha Sub'd-PH2	150,265.40	Customer Addition	Distribution	
M0000891 SOH Mokulele Hwy PH1A/SL&Co	143,803.40	Customer Addition	Distribution	
M0000892 Manele Bay Small Boat Harbor	(14,020.24)	Customer Addition	Distribution	
M0000896 Waiolani Mauka Sub'd	275,899.06	Customer Addition	Distribution	
M0000898 HOKULANI GOLF VILLAS	368,833.40	Customer Addition	Distribution	
M0000899 Lahaina Gateway	36,366.67	Customer Addition	Distribution	
M0000916 OPUKEA AT LAHAINA	87,611.46	Customer Addition	Distribution	
M0000931 Na Mala O Waihee Subd	59,677.32	Customer Addition	Distribution	
M0000936 Ritz Carlton Kapalua	149,917.31	Customer Addition	Distribution	
M0000938 WAIKAPU GARDENS PH5	103,932.56	Customer Addition	Distribution	
M0000942 DHHL KEOKEA-WAILOHULI PH-1	669,836.56	Customer Addition	Distribution	
M0000943 Kehalani Site 10 Sub'd	(78.71)	Customer Addition	Distribution	
M0000949 Wailea Upper Level Water Sys	91.87	Customer Addition	Distribution	
M0000950 HR Auhana Subdivision	47,308.43	Customer Addition	Distribution	
M0000952 Kehalani Site 11, Ph. 1 & 2	51,567.13	Customer Addition	Distribution	
M0000955 Pier 2 Relocation	(2,469.50)	Customer Addition	Distribution	
M0000956 Grove Ranch Subd	98,797.60	Customer Addition	Distribution	
M0000959 Maui Fresh Fish	26,043.18	Customer Addition	Distribution	
M0000961 Ritz Carlton UG Relocation	101,034.62	Customer Addition	Distribution	
M0000989 Peahi Farms Onsite	430,101.51	Customer Addition	Distribution	
M0000995 CONSOLIDATED BASEYARDS SUBD	281,042.18	Customer Addition	Distribution	
M0000997 Omaopio Ridge System Upgrade	208,121.18	Customer Addition	Distribution	
M0000998 Osterstock Subdivision	52,373.47	Customer Addition	Distribution	
M0000999 Maui R&T Park Extension	46,683.06	Customer Addition	Distribution	
M0001002 Kehalani Site 11, Ph. 3	43,656.60	Customer Addition	Distribution	
M0001003 WAIKAPU AG SUBD	51,710.87	Customer Addition	Distribution	
M0001006 Mahanalua Nui Ph-5 Subd	124,122.96	Customer Addition	Distribution	
M0001007 WAILEA MF-11 SUBD	139,654.70	Customer Addition	Distribution	
M0001009 Mohica/Phillips Sub Offsite	507,574.81	Customer Addition	Distribution	
M0001012 Kulamalu Village 4A4	84,243.11	Customer Addition	Distribution	
M0001013 PHILLIPS SUBDIVISION	86,413.61	Customer Addition	Distribution	
M0001017 Arisumi Bros Bldg C	35,621.23	Customer Addition	Distribution	
M0001019 Oceanic JP Attach	58,551.56	Customer Addition	Distribution	

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5th Segment	Description
M0001020	Pillani Mauka Plaza
M0001023	Yokote Subdivision
M0001027	Kehalani Subd Mod 5
M0001028	Zippy's
M0001029	E Paepae Ka Puko'a Subdivision
M0001058	SOH Haleakala St Lighting
M0001059	Omaopio Homestead Subd
M0001067	Lipoa St Comm'l Ctr Offsite
M7000000	OVERHEAD SERVICES & EXTENSIONS
M7009000	OH SERVICES & EXTENSIONS-MOLOKAI
M7010000	OH SVC & EXTENSIONS
M7300000	MINOR POLE LINE RELOCA
M7900000	METERS & METERING EQUIP (RB)
M7910000	TRANSFORMERS & REL. EQ. (RB)
M7920000	MINOR STATE HWY PROJECTS
M7990000	STREET LIGHTS
M8000000	UNDERGROUND SERVICES & EXTNS.
M8010000	UG SERVICES & EXTENSIONS
M8020000	In-Kind CIAC Maui
M8364000	Meadowlands Subd Ph2
M8500000	MINOR OH-UG CONVERSIONS
M8900000	Other Underground Additions
M0000229	Lifecycle Maintenance 02-03
M0000461	T&D/Main Offc Bldg Upgrade
M0000531	PowerTrax Customer Web Info
M0000797	2009 Class Load Study
M0000825	2008 MECO Server LC
M0000904	Laptop Replacement
M0001001	Engineering Storage Trailer
M0001010	T&D BLDG UPG-SIBERIA 2008
M0001022	ISDN/PRI Addition
M0001053	T&D Main Shop Upgrade
M9000000	Minor Communication Facilities
M9083000	Mobile Radio Repl
M9200000	Minor Gen Plant Addn
M9660000	OFFICE FURN AND EQUIP ACC
M9661000	OFFICE FURN AND EQUIP ADMIN
M9662000	OFFICE FURN AND EQUIP T&D
M9663000	OFFICE FURN AND EQUIP PRO
M9664000	OFFICE FURN AND EQUIP ENG
M9800000	Vehicle Purchases
M0000041	Waihee Village Conv
M0000111	Peahi Sub 94
M0000300	Repl.Dist.Tools&Equip
M0000316	LCM-Batteries&Chargers
M0000560	Sub 45 Haleakala Tsf Repl
M0000690	T&D Scada Equipment
M0000720	Reconductor-Mahalani St-UG
M0000745	Sys Imp Piholo Farms III
M0000767	Offsite Impvts Hikina Sub'd
M0000801	System: Lipoa Parkway
M0000803	Spreckelsville Upgrade
M0000807	Mahinahina Sub 50 Repl Tsf 2
M0000808	Kihei35 Add-Dist. To Hi Tech

\$Amount	<u>Decoupling</u>	<u>Category</u>	<u>Functional Category</u>
25,730.03		Customer Addition	Distribution
41,788.16		Customer Addition	Distribution
135,121.57		Customer Addition	Distribution
23,370.20		Customer Addition	Distribution
46,976.53		Customer Addition	Distribution
59,372.29		Customer Addition	Distribution
71,589.17		Customer Addition	Distribution
30,054.26		Customer Addition	Distribution
430,711.62		Customer Addition	Distribution
264.21		Customer Addition	Distribution
416,512.32		Customer Addition	Distribution
22,632.89		Customer Addition	Distribution
819,163.20		Customer Addition	Distribution
2,291,804.45		Customer Addition	Distribution
(36,441.50)		Customer Addition	Distribution
93,140.56		Customer Addition	Distribution
1,649,725.15		Customer Addition	Distribution
427,709.49		Customer Addition	Distribution
6,683,493.00		Customer Addition	Distribution
33.76		Customer Addition	Distribution
15,845.45		Customer Addition	Distribution
177,965.48		Customer Addition	Distribution
21,854,863.24	Customer Addition Total		
65,774.18		Others	
203,451.39		Others	
11,039.36		Others	
598,500.57		Others	
73,005.01		Others	
22,686.82		Others	
35,589.20		Others	
98,247.44		Others	
25,567.68		Others	
83,956.81		Others	
8,716.99		Others	
8,478.20		Others	
18,219.84		Others	
473.78		Others	
16,324.42		Others	
4,153.23		Others	
26,113.63		Others	
5,754.52		Others	
730,446.21		Others	
2,036,499.28	Others Total		
25.00		Reliability	Distribution
2,141.87		Reliability	Distribution
73,259.71		Reliability	Distribution
85,897.17		Reliability	Distribution
(4,866.85)		Reliability	Distribution
23,665.26		Reliability	Distribution
14,501.05		Reliability	Distribution
61,752.32		Reliability	Distribution
138,156.42		Reliability	Distribution
376,351.29		Reliability	Distribution
467,064.25		Reliability	Distribution
17,954.85		Reliability	Distribution
244,971.81		Reliability	Distribution

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<u>5th Segment: Description</u>	<u>\$Amount</u>	<u>Decoupling Category</u>	<u>Functional Category</u>
M0000809 Kihei Sub 35 - Transformer/Switchgear #4	1,320,645.85	Reliability	Distribution
M0000810 Napili Sub 29 Tsf. 2 Replace	938,842.17	Reliability	Distribution
M0000819 LCM - Substation Equipment	87,640.21	Reliability	Distribution
M0000841 Sys Impvts Kapalua Vg Ph 1	43,458.37	Reliability	Distribution
M0000870 Waiehu Well Reclosers	484,480.54	Reliability	Distribution
M0000893 Mahinahina Sub 50 Replace Tsf 1	877,779.60	Reliability	Distribution
M0000957 Paia Mauka Sub Fence Install	71,863.59	Reliability	Distribution
M0000958 Sprecks Sub Fence Install	57,523.97	Reliability	Distribution
M0000963 Makawao Sub 12 Upgrade	575,416.59	Reliability	Distribution
M0001005 Ulupalakua Distr Upgrade	145,251.42	Reliability	Distribution
M0001018 Sys Recond E1-E12 Ulupalakua	5,768.35	Reliability	Distribution
M0001064 Sys Akahele St Recond	394,952.27	Reliability	Distribution
M3030000 MINOR R/W PURCH & APPRAI-MAUI	4,674.22	Reliability	Distribution
M3033000 MINOR R/W PURCH & APPRAI-MOLOKAI	731.25	Reliability	Distribution
M7450000 MINOR OH FDRS & CONV	6,581.61	Reliability	Distribution
M7750000 Other Overhead additions	1,204,959.13	Reliability	Distribution
M8700000 MINOR CABLE FAILURE REPLACE.	468,506.94	Reliability	Distribution
M8980000 Makena CKT 1395 Extension	31,189.01	Reliability	Distribution
M0000126 Sub4 Revenue Metering Upgr	33,829.61	Reliability	G
M0000668 Hana MBL Radio Upgrade	169,292.12	Reliability	G
M0000682 HANA SCADA/FIBER	260.42	Reliability	G
M0001004 Dispatch Elec Improvement	67,704.88	Reliability	G
M9410000 TOOLS & EQUIP-T&D	103,447.83	Reliability	G
M0000414 KPP Improve Water Supply	2,430.00	Reliability	P
M0000423 K1 Generator Rotor Rewind	(9,274.93)	Reliability	P
M0000523 KPP Upgr Fire System	13,322.73	Reliability	P
M0000558 K1 Generator Stator Rewind	147.49	Reliability	P
M0000625 K4 Controls Upgrade	964,213.78	Reliability	P
M0000627 M16 CT Controls	768,935.73	Reliability	P
M0000629 M14 CT Controls	26,198.41	Reliability	P
M0000724 K1 Static Exciter	21,472.55	Reliability	P
M0000728 M14/16 A/C	136,076.91	Reliability	P
M0000777 KPP K2 Tsf Replacement	269,438.76	Reliability	P
M0000782 KPP Compressor	160,531.50	Reliability	P
M0000784 KPP Welding Lean to	717.28	Reliability	P
M0000787 KPP Used Oil Berm	195,114.53	Reliability	P
M0000788 K3 ID Fan	89,318.17	Reliability	P
M0000792 MPP E-Cell	159,494.35	Reliability	P
M0000793 KPP Wash Rack	14,093.02	Reliability	P
M0000905 MPP Wash Rack Crane Upgrade	31,897.21	Reliability	P
M0000906 MPP Tank A&B Berm Liner	21,495.98	Reliability	P
M0000907 M15 Turbine Controls Upgrade	335,775.82	Reliability	P
M0000908 KPP UPS Battery Charger #2	30,344.41	Reliability	P
M0000909 K1 DCS Modules Upgrade	53,615.49	Reliability	P
M0000914 Molokai CT Controls Upgrade	278,489.29	Reliability	P
M0000926 K2 DCS Modules Upgrade	56,221.46	Reliability	P
M0000953 MPP Articulating Boom	23,983.10	Reliability	P
M0001026 MPP EMS Monitoring System	20,337.19	Reliability	P
M0001056 M15 Steam Turbine Valve Upgr	252,182.61	Reliability	P
M0001057 Mol#3 Gen Protection Relays	26,429.69	Reliability	P
M0001061 KPP Security Shack Mon Syst	25,952.54	Reliability	P
M2600000 MPP MINOR PS ADDITIONS	63,963.21	Reliability	P
M2601000 KPP MINOR PS ADDITIONS	11,185.02	Reliability	P
M2602000 LPP MINOR PS ADDITION	3,087.97	Reliability	P
M2603000 MOE MINOR PS ADDITION	38,120.55	Reliability	P
M3141001 MPP M18-18MW Steam Turbine	196,573.44	Reliability	P

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<u>5th Segment Description</u>	<u>\$Amount</u>	<u>Decoupling Category</u>	<u>Functional Category</u>
M3183000 SCR DEMONSTRATION PROJECT	95.63	Reliability	P
M3200000 MPP MINOR PP ADDITIONS	25,498.13	Reliability	P
M3201000 KPP MINOR PP ADDITIONS	61,717.22	Reliability	P
M3202000 LPP MINOR PP ADDITIONS	122.91	Reliability	P
M9420000 TOOLS & EQUIP-PRODUCTION	20,970.72	Reliability	P
M00000019 Damages Caused by External Party	4,406.20	Reliability	T
M0000309 MPP to Kihei Sub Pilot Wire	178.54	Reliability	T
M0000660 Paia 23kV Breaker Repl	151,748.79	Reliability	T
M0000687 Kanaha Tsf #B Replacement	21,527.23	Reliability	T
M0000688 KPP Spare Tsf Replacement	193,031.28	Reliability	T
M0000715 Kah Sub Tsf 8-3 Replace	1,538.26	Reliability	T
M0000751 Trans - Radiator MPP M123	193,662.12	Reliability	T
M0000815 Hana DG Parallel Operations	596,396.12	Reliability	T
M0000832 Molokai 34kV OH Insulators	184,672.29	Reliability	T
M0000960 Sys: Waiko Rd Re-Build	126,628.59	Reliability	T
M3300000 Transmission Sub Additions	13,252.69	Reliability	T
M3500000 MINOR TRANSM PLANT LINES	538,320.17	Reliability	T
M3543000 Waiale To Sub 36 T&D Ln Reconstruction	12.50	Reliability	T
M7914000 Repl Trans Equipment	430,806.47	Reliability	T
	15,442,145.22	Reliability Total	
M0000868 Makila Hydro Interconnection	(9,000.00)	Renewable	
M0001072 LSR PV Project	767,478.29	Renewable	
	758,478.29	Renewable Total	
	40,091,986.03	Grand Total	

Depreciation Calculations:

	<u>Reliability Adds</u>	<u>2009 Depr %</u>	<u>2009 Depr Accrual</u>
Reliability	8,221,139.24	4.51%	370,773.38
Distribution	374,534.86	6.25%	23,408.43
General Plant	4,390,289.87	3.53%	154,977.23
Production	2,456,181.25	3.38%	83,018.93
Transmission			
Total Reliability	15,442,145.22		632,177.97
Customer Adds	21,854,863.24	4.51%	985,654.33
Renewables:			
Distribution	758,478.29	4.51%	34,207.37
General Plant		6.25%	-
Production		3.53%	-
Transmission		3.38%	-
Total Renewables	758,478.29		34,207.37
Other	2,036,499.28	6.25%	127,281.21

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Resp Dept	Proj	Project	Functional Category	Pmt Add	2009	2010	2011	2012	2013	Total
				Date	Additions	Additions	Additions	Additions	Additions	Total
Admin	M0001031 SECURITY CAPITAL EQUIPMENT	General	General	TK	54,570	63,388	53,818	54,212	54,268	280,256
Admin	M9861000 OFFICE FURN AND EQUIP ADMIN	General	General	TK	22,249	21,617	20,265	31,525	20,266	115,923
Admin Total					76,819	85,005	74,084	85,737	74,534	396,179
CustSvc	M0001062 Meter Reader Handheld Upgrade	General	General	2010/06		11,069	117,094			117,094
CustSvc	M9865000 OFFICE FURN AND EQUIP CUS	General	General	TK			5,630	5,630		- 27,959
CustSvc Total					11,069	122,724	5,630	5,630		- 145,053
Distribution	M0001063 Wailea Office Site	Distribution	Distribution	2009/12	253,596		3,156,089	1,900		253,596
Distribution	M0001040 Wahikuli Sub	Distribution	Distribution	2011/12		163,001				3,157,989
Distribution	M0001051 Kaonoulu Sub UG Main Fdrs	General	General	2010/12						163,001
Distribution	M0001036 Lanai SCADA Upgrade 2009	Transmission	Transmission	2009/11	272,276					272,276
Distribution	M0001039 Kaonoulu Sub 2010	General	General	2011/02						4,386,447
Distribution	M0001047 Replace Lahaina Static Lines	Transmission	Transmission	2009/03	150,000					150,000
Distribution	M0001048 2009 NICE System Upgrade	General	General	2009/03	57,931					57,931
Distribution	M0000005 Wailea Sectionalizing Equip Inst	Distribution	Distribution	2013/09						258,201
Distribution	M0000009 Ckt 1308 Swgr To Riser Cable Repl	Distribution	Distribution	2010/03	55,716					55,716
Distribution	M0000011 Ckt 1237 Equip Addn-Regul/Conduct. 2003	Distribution	Distribution	2010/03	60,748					60,748
Distribution	M0000019 Damages Caused by External Party	Transmission	Transmission	2009/09 S	102,537					102,537
Distribution	M0000088 Kokomo 23kV Recloser Addn	Transmission	Transmission	2011/12	202,323		3,323,591			3,323,591
Distribution	M0000107 Maui Lani Sub	General	General	2009/12	113,174		63,166	64,316		202,323
Distribution	M0000193 Wailea Sub #2430-KahReUpgr	Distribution	Distribution	2011/12 SU	108,525		60,884	62,028		203,372
Distribution	M0000229 Lifecycle Maintenance 02-03	Blanket	Blanket	2011/12 SU	108,525		60,884	62,028		203,372
Distribution	M0000266 6th Increment Dist. Rebuild	Distribution	Distribution	2013/10	67,298		69,295	70,700		203,372
Distribution	M0000300 Replacement Distr. Tools & Equipment	Transmission	Transmission	2010/05		257,369				257,369
Distribution	M0000306 23kV Switch Automation-Wakea	General	General	TK	46,697		48,552	49,709		56,999
Distribution	M0000308 New Piliani OH Feeder	General	General	2011/11			181,206			181,206
Distribution	M0000316 Life Cycle Mgt-Batteries&Chargers	General	General	Blanket	306,554		108,507	110,979		721,753
Distribution	M0000387 Maloaka SCADA Upgrade	Distribution	Distribution	2011/10			313,145			313,145
Distribution	M0000461 T&D/Main Offc Bldg Upgrade	Distribution	Distribution	2011/12			199,220			199,220
Distribution	M0000635 Kalaukoi UG Main Fdr Repl Ph 4	Distribution	Distribution	2011/03			113,505			130,993
Distribution	M0000636 Kalaukoi UG Fused Fdr Repl	Distribution	Distribution	2009/09 S	131,026		307,993			131,026
Distribution	M0000637 Kalaukoi UG Main Fdr Repl Ph3	Distribution	Distribution	2009/07 S	160,639					160,639
Distribution	M0000658 Wailea Cap Bank #3	Transmission	Transmission	2010/10		721,439				721,439
Distribution	M0000661 Kihei Cap Bank #3	General	General	Blanket	195,612		158,898	160,539		67,554
Distribution	M0000686 Wailea Cap Bank Controller	Distribution	Distribution	2010/08			75,596			75,596
Distribution	M0000690 T&D SCADA EQUIPMENT	Transmission	Transmission	2010/08			75,596			75,596
Distribution	M0000692 Kihei Sub DLP Replacement	Transmission	Transmission	2010/08			110,781			110,781
Distribution	M0000693 Lahaina Sub DLP Replacement	Transmission	Transmission	2013/07						72,017
Distribution	M0000694 Maaleea Sub DLP Replacement	Transmission	Transmission	2009/08	379,937					379,937
Distribution	M0000695 Pomaiki Ph 2	Distribution	Distribution	2009/10 S	79,409					79,409
Distribution	M0000716 Install Viper-E25 Onehee Ave	Blanket	Blanket	2010/10 SU			62,024			62,024
Distribution	M0000717 Dairy Rd-Puukani St-OH Extention	Distribution	Distribution	2009/01	189,767					189,767
Distribution	M0000719 Record-Kaahumanu-Papa/Kane	Distribution	Distribution	2009/08	83,443					83,443
Distribution	M0000747 Trans Syst Eq. Purch-Radiator	General	General	2010/12	149,518		152,138	152,449		153,757
Distribution	M0000796 SCADA Control Enhancements	Transmission	Transmission	2009/04	165,931		105,272			105,272
Distribution	M0000802 Hanai 23kV Maiko-Sub 16	Transmission	Transmission	2009/02	846,949					846,949
Distribution	M0000806 Kahakuloa Step Down Relocate	Distribution	Distribution	2009/11	266,505					266,505
Distribution	M0000819 LCM - Substation Equipment	Distribution	Distribution	Blanket	178,828		184,423	187,657		935,288

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<u>Responsible Dept</u>	<u>Proj</u>	<u>Project</u>	<u>Functional Category</u>	<u>Plt Add Date</u>	<u>2009 Additions</u>	<u>2010 Additions</u>	<u>2011 Additions</u>	<u>2012 Additions</u>	<u>2013 Additions</u>	<u>Total</u>
Distribution	M0000823	KBY Vehic Bldg FireSprinkler	General	2009/07	70,732					70,732
Distribution	M0000826	Onehee SCADA Inst	General	2011/12						72,932
Distribution	M0000831	Puukohli Sub Expansion	Distribution	2009/09	1,797,884	30,388				1,828,272
Distribution	M0000920	Lahaina Sub 34' Repl Tsf 1	Transmission	2009/11	853,930	17,091				871,021
Distribution	M0000928	MAUILANI SUB OFFSITE	Distribution	2010/04	298,033					298,033
Distribution	M0000983	HP PWR&CNTR MTR SYS	General	2011/12	200,000					222,816
Distribution	M0000984	T & D KBY Warehouse	General	2009/12	200,000					200,000
Distribution	M0000985	Lanai T&D WH Door Addin	General	2009/01	176,499					176,499
Distribution	M0000986	Lahaina Sub Tsf. 2&3 Replace	Distribution	2009/01	433,408					433,408
Distribution	M0001025	Wailea #4	Distribution	2009/12	1,481,790					1,481,790
Distribution	M3300000	TRANSMISSION SUB ADDITIONS	Transmission	Blanket	21,051	21,824	22,363	22,922	23,481	111,641
Distribution	M3500000	MINOR TRANSM PLANT LINES	Transmission	Blanket	277,972	283,647	287,433	291,235	292,206	1,432,493
Distribution	M3600000	MINOR DISTRIBUTION SS ADD	Distribution	Blanket	49,356	51,097	52,377	53,703	55,031	261,564
Distribution	M7914000	Repl Trans Equipment	Transmission	Blanket	513,666	518,940	518,940	518,940	518,940	2,589,426
Distribution	M8700000	MINOR CABLE FAILURE REPLACE.	Distribution	Blanket	360,289	369,821	377,014	384,293	391,749	1,883,166
Distribution	M9000000	Minor Communication Facilities	General	Blanket	24,869	25,938	14,599	14,965	15,724	96,095
Distribution	M9080000	T & D RADIO EQUIPMENT	General	Blanket	9,776	10,196	7,300	7,483	7,862	42,617
Distribution	M9083000	Mobile Radio Repi	General	Blanket	28,268	28,830	22,885	23,047	25,381	128,411
Distribution	M9200000	Minor Gen Plant Add	General	Blanket	70,210	61,056	62,566	64,135	44,832	302,799
Distribution	M9410000	TOOLS & EQUIP-T&D	General	TK	121,959	152,923	185,234	189,793	195,871	845,780
Distribution	M9662000	OFFICE FURN AND EQUIP T&D	General	TK	11,069	11,259	5,630	5,630	13,060	46,648
Distribution	M9800000	Vehicle Purchases	General	TK	743,616	774,498	753,407	781,852	780,746	3,844,119
Distribution	M0001094	Greening Transportation	General	TK	33,777	28,148	31,525	19,140	112,590	97,433
Distribution	M0001050	EMS Computer Lifecycle	General	2009/08	97,433					97,433
Distribution	M0001032	KPP Frequency Monitoring	General	2009/05	28,882					28,882
Distribution	M0001077	Keanae 23kv recloser	Transmission	2010		43,269				43,269
Distribution	M0001085	Kula Ag redosier	Distribution	2010		43,269				43,269
Distribution	M0001076	Onehee Substation SCADA	General	2010		107,795				107,795
Distribution	M0001085	Kula Ag Substation SCADA	General	2010		107,795				107,795
Distribution	M0001084	Relay and power quality communications	General	2010		83,552				83,552
Distribution	M0001083	Frequency monitoring	General	2010		47,166				47,166
Distribution	M0001088	Weather stations	Transmission	2010		26,427				26,427
Distribution	M0001089	PV monitoring	Transmission	2010		16,393				16,393
Distribution	M0001090	Underfrequency load shed scheme expansion	General	2010		52,823				52,823
Distribution	M0001086	Undervoltage protection	General	2011		213,082				213,082
Distribution	M0001082	SCADA migration to EMP 2.5	General	2012						329,489
Distribution	M0001081	Kihon substation relay upgrade	Transmission	2011						66,631
Distribution	M0001080	Kanaha substation relay upgrade	Transmission	2012						66,631
Distribution	M0001079	Wailea substation relay upgrade	Distribution	2011						99,947
Distribution	M0001091	Molokai SCADA	General	2013						329,489
Distribution	M0001078	Lanai SCADA	General	2013						108,858
Distribution Total			Blanket		12,086,554	5,745,504	23,475,270	4,111,551	4,130,394	49,549,273
Engineering	M0000006	Ckt 1237 Equip Addr-Regul/Conduct. 2008	Distribution	2009/02	69,507					69,507
Engineering	M000710	COM Lwr HP Road Phase 4	Distribution	2009/08		356,011				356,011
Engineering	M0006720	Reconductor-Mahalani St-UJ	Distribution	2009/04		110,232				110,232
Engineering	M0006775	West Maui Breakers	Distribution	2009/01		127,176				127,176
Engineering	M0006800	Puakohli Additional Circuits	Distribution	2009/02		14,950				14,950
Engineering	M0006801	Lipoa Parkway	Distribution	2009/03		771,405				771,405
Engineering	M0006804	Kokomo Rd Reconduct	Distribution	2009/05		108,481				108,481
Engineering	M0006812	UG Sys Impwts Kualono Sub'd	Distribution	2009/08		25,347				25,347

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Engineering	M0000830 Lahaina Bypass	Distribution	2009/09	27,516					27,516
Engineering	M0000834 Kah Airport Cable Upgrade	Distribution	2009/03	5,479					5,479
Engineering	M0000861 Kaanapali Sub'd	Distribution	2009/04	11,838					11,838
Engineering	M0000862 Manele Bay Resort, Parcel C, Phase II	Distribution-Lanai	2009/12	31,726					31,726
Engineering	M0000882 Phil Christopher	Distribution	2009/01	29,382					29,382
Engineering	M0000917 MAUI LANI & KUIKAIHI EXT	Distribution	2009/02	296,107					296,107
Engineering	M0000918 AINA O KANE	Distribution	2009/03	59,746					59,746
Engineering	M0000925 Sys Impvts Olowalu-Ukumehame	Distribution	2009/11	46,532					46,532
Engineering	M0000929 Kualono Sub'd Offsite Conn	Distribution	2009/08	19,605					19,605
Engineering	M0000930 Kualono Sub'd	Distribution	2009/09	29,596					29,596
Engineering	M0000934 KEHALANI MAUKA 23KV OHUUG Conn	Transmission	2009/04	3,302					3,302
Engineering	M0000935 KEHALANI IRRIGATION 23KV	Distribution	2009/05	11,001					11,001
Engineering	M0000936 RITZ CARLTON KAPALUA	Distribution	2009/01	304,877					304,877
Engineering	M0000937 KEHALANI MAUKA LOOP	Distribution	2009/05	22,164					22,164
Engineering	M0000939 KEHALANI MAUKA IRRIGATION 12	Distribution	2009/03	41,808					41,808
Engineering	M0000940 KEHALANI SITE 23(MILO COURT)	Distribution	2009/04	38,754					38,754
Engineering	M0000941 KUALAPA LOOP	Distribution	2009/03	4,416					4,416
Engineering	M0000997 Omaopio Ridge System Upgrade	Distribution-Lanai	2009/01	289,965					289,965
Engineering	M0010008 Donald Totten Conn	Distribution	2009/04	2,797					2,797
Engineering	M0010111 Maui Lani PH1-D	Distribution	2009/01	3,371					3,371
Engineering	M001012 Kualamai Village 4A4	Distribution-Easement	TK	5,639					5,639
Engineering	M3030000 MINOR RW PURCH & APPRAI-MAUI	Distribution-Easement Le-TK	TK	18,000	18,000	18,000	18,000	18,000	90,000
Engineering	M3032000 MINOR RW PURCH & APPRAI-LANAI	Distribution-Easement M-TK	TK	1,100	1,100	1,100	1,100	1,100	5,500
Engineering	M3033000 MINOR RW PURCH & APPRAI-MOLOKAI	Distribution	Blanket	2,700	2,700	2,700	2,700	2,700	13,500
Engineering	M7000000 OVERHEAD SERVICES & EXTENSIONS	Distribution	Blanket	971,273	1,011,387	1,028,824	1,045,985	1,075,196	5,132,665
Engineering	M7300000 MINOR POLE LINE RELOCA	Distribution	Blanket	239,523	248,884	253,029	257,140	260,793	1,259,369
Engineering	M7750000 Other Overhead additions	Distribution	Blanket	1,426,645	1,463,849	1,490,441	1,516,554	1,527,967	7,425,456
Engineering	M7900000 METERS & METERING EQUIP (RB)	Distribution	Blanket	922,578	821,031	833,406	845,585	894,072	4,316,782
Engineering	M7910000 TRANSFORMERS & REL. EQ. (RB)	Distribution	Blanket	2,711,514	2,662,253	2,696,565	2,731,382	2,766,719	13,568,433
Engineering	M7920000 MINOR STATE HWY PROJECTS	Distribution	Blanket	77,581	80,245	81,503	82,772	85,635	407,736
Engineering	M7990000 STREET LIGHTS	Distribution	Blanket	75,334	78,024	79,325	80,613	81,912	395,298
Engineering	M8000000 UNDERGROUND SERVICES & EXTNs.	Distribution	Blanket	5,339,595	5,499,262	5,595,735	5,690,205	5,642,154	27,766,951
Engineering	M8020000 In-Kind CIAC Maui	Distribution	Blanket	11,414,300	11,585,514	11,759,297	11,935,686	12,114,722	58,809,519
Engineering	M8500000 MINOR OH-UG CONVERSIONS	Distribution	Blanket	312,140	323,023	328,758	334,334	337,416	1,635,671
Engineering	M8900000 Other Underground Additions	Distribution	Blanket	243,179	249,483	253,765	257,974	263,999	1,268,490
Engineering	M8980000 Makena CKT 1395 Extension	Distribution	General	71,145					71,145
Engineering	M9640000 OFFICE FURN AND EQUIP ENG	General	TK	16,875	17,164	7,363	3,986	7,363	52,751
Engineering Total	M9660000 OFFICE FURN AND EQUIP ACC	General	TK	11,069	11,259	11,259	11,259	11,259	56,105
Gen Accounting Total		Production-Other	2009/07	2,914,614					2,914,614
Power Supply	M0000540 CHP Manelis Bay Hotel	Production-Other	2009/12	33,626					33,626
Power Supply	M0000721 M8 & M9 Racking Mechanism	Production-Other	2009/06	519,240					519,240
Power Supply	M0000727 M117 Control System Interface	Production-Other	2009/12	33,626					33,626
Power Supply	M0000729 M6 & M7 Racking Mechanism	Production-Other	2009/12	79,108					79,108
Power Supply	M0000785 LL5 Radiator	Production-Steam	2009/02	316,084					316,084
Power Supply	M0000789 KPP Condensate Storage Tank Pedestal	Production-Other	2009/04	333,797					333,797
Power Supply	M0000790 M12/13 CEMS Replacement	Production-Other	2009/09	257,875					257,875
Power Supply	M0000791 MPP Oily Waste Water Separator	Production-Other	2009/12	82,379					82,379
Power Supply	M0000794 LL6 Radiator	Production-Other	Blanket	-	199,596	798,531	201,587	1,017,312	2,217,026
Power Supply	M0000795 DG Program	Production-Other	2011/05	2,027,344					2,027,344
Power Supply	M0000816 KWP Electric Shock Absorber	Production-Other							

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Resp Dept	Proj	Project		Functional Category	Plt Add Date	2009	2010	2011	2012	2013	Total
						Additions	Additions	Additions	Additions	Additions	
Power Supply	M0000910	M117 CEMS & DAS Upgrade	Production-Other	2009/04	84,514						84,514
Power Supply	M0000911	M19 CEMS & DAS Upgrade	Production-Other	2009/04	86,287						86,287
Power Supply	M0000912	G07 CEMS Upgrade	Production-Other Molokai	2009/06	149,202						149,202
Power Supply	M0000913	G08 CEMS Upgrade	Production-Other Molokai	2009/06	149,202						149,202
Power Supply	M0000965	L07 CEMS Upgrade	Production-Other Lanai	2009/04	159,650						159,650
Power Supply	M0000966	M19 Control System Interface	Production-Other	2009/06	468,529						468,529
Power Supply	M0000967	L08 CEMS Upgrade	Production-Other Lanai	2009/04	155,974						155,974
Power Supply	M0000968	KPP FO Recirc System	Production-Other	2010/11	182,702						182,702
Power Supply	M0000969	KPP Remote Level Indicator	Production-Steam	2012/09							194,044
Power Supply	M0000970	MPP Conversion to Biogas	Production-Other	2011/05		321,849					321,849
Power Supply	M0000971	MPP Fire Alarm System Upgrade	General	2011/12	158,473						158,473
Power Supply	M0000972	K1 Burner Assemblies	Production-Other	2009/10	94,743						94,743
Power Supply	M0000973	LL 1-6 Breakers	Production-Other Lanai	2009/11	145,916						145,916
Power Supply	M0000974	M19 Bypass Damper	Production-Other	2011/06		266,935					266,935
Power Supply	M0000975	M17 Bypass Damper	Production-Other	2011/06		266,935					266,935
Power Supply	M0000976	LL1 Radiator	Production-Other Lanai	2011/12	96,485						96,485
Power Supply	M0000977	LL2 Radiator	Production-Other Lanai	2011/12	94,127						94,127
Power Supply	M0000978	LL4 Radiator	Production-Other Lanai	2010/12	94,127						94,127
Power Supply	M0000979	LL3 Radiator	Production-Other Lanai	2010/12	94,127						94,127
Power Supply	M0000980	Ca17-9 Fuel Meter Upgrade	Production-Other Molokai	2009/06	185,307						185,307
Power Supply	M0000981	G09 CEMS Upgrade	Production-Other Molokai	2009/06	149,292						149,292
Power Supply	M2600000	MPP MINOR PS ADDITIONS	Production-Other	Blanket	64,839	67,584	69,278	71,035	72,792		345,528
Power Supply	M2601000	KPP MINOR PS ADDITIONS	Production-Other	Blanket	64,308	67,030	68,711	70,453	72,196		342,698
Power Supply	M2602000	LPP MINOR PS ADDITION	Production-Other Lanai	Blanket	14,177	14,777	15,148	15,532	15,916		75,550
Power Supply	M2603000	MOE MINOR PS ADDITION	Production-Other Molokai	Blanket	22,139	23,076	23,654	24,254	24,854		117,977
Power Supply	M3200000	MPP MINOR PP ADDITIONS	Production-Other	Blanket	48,097	50,133	51,390	52,693	53,997		256,310
Power Supply	M3201000	LPP MINOR PP ADDITIONS	Production-Other	Blanket	29,681	30,937	31,713	32,517	33,321		158,169
Power Supply	M3202000	LPP MINOR PP ADDITIONS	Production-Other Lanai	Blanket	17,381	18,116	18,571	19,042	19,513		92,623
Power Supply	M3203000	MOE MINOR PP ADDITIONS	Production-Other Molokai	Blanket	17,381	18,116	18,571	19,042	19,513		92,623
Power Supply	M9420000	TOOLS & EQUIP-PRODUCTION	Production-Other	TK	116,384	121,311	124,352	127,506	130,660		620,213
Power Supply	M9663000	OFFICE FURN AND EQUIP PRO	General	TK	31,383	32,711	33,531	34,381	31,292		163,298
Power Supply	M0001044	MPP Air Compressor Upgrade	Production-Other	2009/05	68,697						68,697
Power Supply	M0001035	MPP Used Oil Blending System	Production-Other	2010/06	41,983						41,983
Power Supply	M0001043	M1 Controls Upgrade	Production-Other	2009/08	174,153						174,153
Power Supply	M0001042	M2 Controls Upgrade	Production-Other	2009/09	174,285						174,285
Power Supply	M0001041	M3 Controls Upgrade	Production-Other	2012/06	174,285						174,285
Power Supply	M0001038	M10/M11 Fuel Meter Upgrade	Production-Other	2009/09	116,419						116,419
Power Supply	M0001033	M14/M16 Breakers Upgrade	General	2009/04	288,448						288,448
Power Supply	M0001049	Molokai Paving	Production-Other	2009/04	155,654						155,654
Power Supply	M0001045	MOL Units 7-9 Buildings Wall	Production-Other	2009/10	155,851						155,851
Power Supply	M0001046	LAN Units 7&8 Buildings Wall	Production-Other	2010/03		205,973					205,973
Power Supply Total					8,132,437	1,262,299	4,487,956	962,704	1,491,366	16,336,762	
President	M9666000	OFFICE FURN AND EQUIP CORP	General	TK	5,535	5,630	5,630	5,630	5,630		28,055
President Total					5,535	5,630	5,630	5,630	5,630	5,630	28,055
Renew Energy	M0000531	PowerTrax Customer Web Info	General	Bkt-no AF	31,278	31,765	31,914	32,062	32,212		159,231
Renew Energy	M9667000	OFFICE FURN AND EQUIP RES	General	TK	33,207	6,755	6,755	6,755	6,755		60,227
Renew Energy	M001037	Class Load Study 2012	General	2012/12							900,720
Renew Energy	M001092	KBY PV Engineering	General	2010	1,068,017						1,068,017
Renew Energy	M001093	KBY PV Warehouse	General	2010	2,015,326						2,015,326
Renew Energy	M001095	KBY PV Administration	General	2011	892,242						892,242

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Renew Energy Total									
Transmission	M0001060 Oceaninix Interconnection	Transmission	2010	64,485	3,121,863	930,911	939,537	38,967	5,095,763
Transmission Total					1,723,836	-	-	-	1,723,836
Grand Total				47,100,181	36,189,494	53,420,551	30,926,174	30,831,898	198,468,297
Summary Plant Adds by PUC-IR-52 Categories:									
Customer Additions				26,712,213	24,111,374	24,429,811	24,804,126	25,079,748	125,137,272
Others				1,871,412	1,463,084	1,280,306	2,243,229	1,259,206	8,127,237
Renewables - no surcharge					4,807,179	2,919,586	-	-	7,726,765
Renewables - surcharge					-	-	-	-	-
Reliability				18,516,556	5,807,857	24,780,848	3,878,819	4,492,944	57,477,023
Total Plant Additions				47,100,181	36,189,494	53,420,551	30,926,174	30,831,898	198,468,297

Projected Listing for System Reliability Category:

Distribution	M0000005 Wailea Sectionalizing Equip Inst	Distribution	2013/09	55,716				258,201	258,201
Distribution	M0000009 Ckt 1308 Swgr To Riser Cable Repl	Distribution	2009/09					55,716	55,716
Distribution	M0000011 Ckt 1237 Equip Addn-Regul/Conduct. 2003	Distribution	2010/03		60,748			60,748	60,748
Distribution	M0000019 Damages Caused by External Party	Distribution	Blanket	59,506	60,884	62,028	63,166	64,316	309,900
Distribution	M0000107 Maui Lani Sub	Distribution	2011/12 SU		3,323,591	7,484,603			3,323,591
Distribution	M0000266 6th Increment Distr Rebuild	Distribution	TK	67,298	69,295	70,700	72,159	50,369	7,484,603
Distribution	M0000300 Replacement Distr Tools & Equipment	Distribution	2011/10			313,145			329,821
Distribution	M0000635 Kaluakoi UG Main Fdr Repl Ph 4	Distribution	2011/12			199,220			313,145
Distribution	M0000636 Kaluakoi UG Fused Fdr Repl	Distribution	2011/03			307,993			199,220
Distribution	M0000637 Kaluakoi UG Main Fdr Repl Ph3	Distribution	2009/09 S	131,026					307,993
Distribution	M0000658 Wailea Cap Bank #3	Distribution	2009/07 S	160,639					131,026
Distribution	M0000661 Kihei Cap Bank #3	Distribution	2009/08	379,937					160,639
Distribution	M0000698 Pomaiakai Ph 2	Distribution	2009/10 S	79,409					379,937
Distribution	M0000716 Install Viper-E25 Onshea Ave	Distribution	2010/10 SU		62,024				79,409
Distribution	M0000717 Dairy Rd-Puukani St-OH Extent	Distribution	2009/01	189,767					62,024
Distribution	M0000718 Recorderator Ckt.1347-Kanaha	Distribution	2009/08	83,443					189,767
Distribution	M0000719 Record-kahahumanu-Papa/Kane	Distribution	2009/02	846,949					83,443
Distribution	M0000805 Kauhikoa Sub	Distribution	2009/11	266,505					846,949
Distribution	M0000806 Kahakuloa Step Down Relocate	Distribution	Blanket	178,828	164,423	187,657	190,978	193,402	266,505
Distribution	M0000819 LCM - Substation Equipment	Distribution	2009/09	1,797,884	30,388				935,288
Distribution	M0000831 Puukohli Sub Expansion	Distribution	2010/04	298,033					1,828,272
Distribution	M0000928 MAUI LANI SUB OFFSITE	Distribution	2009/01	433,408					298,033
Distribution	M0000996 Lahaina Sub Tsf. 2&3 Replace	Distribution	2009/12	1,481,790					433,408
Distribution	M0001025 Wailea #4	Distribution	2011/12						1,481,790
Distribution	M0001040 Wahikuli Sub	Distribution	2010/12						3,157,989
Distribution	M0001051 Kaonolu Sub UG Main Fdrs	Distribution	2009/12	253,596					163,001
Distribution	M0001063 Wailea Office	Distribution	2011			99,947			253,596
Distribution	M0001079 Wailea substation relay upgrade	Distribution	2010		43,269				99,947
Distribution	M0001085 Kula Ag recloser	Distribution	Blanket	49,356	51,097	399,777	53,703	399,777	43,269
Distribution	M0001087 SCADA enabled distribution switches	Distribution	Blanket	360,289	369,821	377,014	384,283	391,749	799,554
Distribution	M3600000 MINOR DISTRIBUTION SS ADD	Distribution	TK	46,697	48,552	49,709	50,902	56,999	261,564
Distribution	M8700000 MINOR CABLE FAILURE REPLACE.	General	2011/11						252,859
Distribution	M0000316 Life Cycle Mgt-Batteries&Chargers	General							181,206
Distribution	M0000387 Molokai SCADA Upgrade	General							

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Resp Dept	Proj	Project	2013					
			Pit Add	Date	2009 Additions	2010 Additions	2011 Additions	2012 Additions
Distribution	M00000650 T&D SCADA EQUIPMENT	Functional Category	Bikt-no AF	195,612	158,898	160,539	162,159	67,554
Distribution	M00000796 SCADA Control Enhancements	General	General	2010/12	105,272	72,992	72,932	105,272
Distribution	M00000826 Onehei SCADA Inst	General	General	2011/12	158,473	158,473	22,816	158,473
Power Supply	M00000971 MPP Fire Alarm System Upgrade	General	General	2011/12	22,616	22,616	22,616	22,616
Distribution	M00000983 HP PWR&CNTR MTR SYS	General	General	2009/01	176,499	176,499	176,499	176,499
Distribution	M00000985 Lanai T&D WH Door Addin	General	General	2009/05	28,882	28,882	28,882	28,882
Distribution	M00001032 KPP Frequency Monitoring	General	General	2009/11	272,276	272,276	272,276	272,276
Distribution	M00001036 Lanai SCADA Upgrade 2009	General	General	2009/03	57,931	57,931	57,931	57,931
Distribution	M00001048 2009 NICE System Upgrade	General	General	2009/04	288,448	288,448	288,448	288,448
Power Supply	M00001049 Molokai Paving	General	General	2010	107,795	107,795	107,795	107,795
Distribution	M00001076 Onehei Substation SCADA	General	General	2013	108,858	108,858	108,858	108,858
Distribution	M00001078 Lanai SCADA	General	General	2012	329,489	329,489	329,489	329,489
Distribution	M00001082 SCADA migration to EMP 2.5	General	General	2010	47,166	47,166	47,166	47,166
Distribution	M00001083 Frequency monitoring	General	General	2010	83,552	83,552	83,552	83,552
Distribution	M00001084 Relay and power quality communications	General	General	2010	107,795	107,795	107,795	107,795
Distribution	M00001085 Kul Ag Substation SCADA	General	General	2011	213,082	213,082	213,082	213,082
Distribution	M00001086 Undervoltage protection	General	General	2010	52,823	52,823	52,823	52,823
Distribution	M00001090 Undershoot frequency load shed scheme expansion	General	General	2013	185,234	185,234	185,234	185,234
Distribution	M00001091 Molokai SCADA	General	General	2010	121,959	121,959	121,959	121,959
Distribution	M94100000 TC00LS & EQUIP-T&D	Production-Other	TK	2009/07	2,914,614	2,914,614	2,914,614	2,914,614
Distribution	M00000540 CHP Manele Bay Hotel	Production-Other	Production-Other	2009/12	33,626	33,626	33,626	33,626
Power Supply	M00000721 M8 & M9 Racking Mechanism	Production-Other	Production-Other	2009/06	519,240	519,240	519,240	519,240
Distribution	M00000727 M17 Control System Interface	Production-Other	Production-Other	2009/12	33,626	33,626	33,626	33,626
Distribution	M00000729 M6 & M7 Racking Mechanism	Production-Other	Production-Other	2009/12	79,108	79,108	79,108	79,108
Distribution	M00000785 LL5 Radiator	Production-Other	Production-Other	2009/04	333,797	333,797	333,797	333,797
Power Supply	M00000790 M12/13 CEMS Replacement	Production-Other	Production-Other	2009/09	257,875	257,875	257,875	257,875
Power Supply	M00000791 MPP Oily Waste Water Separator	Production-Other	Production-Other	2009/12	82,379	82,379	82,379	82,379
Power Supply	M00000794 LL6 Radiator	Production-Other	Blanket	-	199,596	199,596	199,596	199,596
Power Supply	M00000795 DG Program	Production-Other	Production-Other	2009/04	84,514	84,514	84,514	84,514
Power Supply	M00000910 M17 CEMS & DAS Upgrade	Production-Other	Production-Other	2009/04	86,287	86,287	86,287	86,287
Power Supply	M00000911 M19 CEMS & DAS Upgrade	Production-Other	Production-Other	2009/06	468,529	468,529	468,529	468,529
Power Supply	M00000919 Control System Interface	Production-Other	Production-Other	2010/11	182,702	182,702	182,702	182,702
Power Supply	M00000968 KPP FO Recirc System	Production-Other	Production-Other	2011/05	321,849	321,849	321,849	321,849
Power Supply	M00000970 MPP Conversion to Biobased	Production-Other	Production-Other	2009/10	94,743	94,743	94,743	94,743
Power Supply	M00000972 K1 Burner Assemblies	Production-Other	Production-Other	2011/06	266,935	266,935	266,935	266,935
Power Supply	M00000974 M19 Bypass Damper	Production-Other	Production-Other	2011/06	266,935	266,935	266,935	266,935
Power Supply	M00000975 M17 Bypass Damper	Production-Other	Production-Other	2009/09	116,419	116,419	116,419	116,419
Power Supply	M00001033 M14/M16 Breakers Upgrade	Production-Other	Production-Other	2010/03	205,973	205,973	205,973	205,973
Power Supply	M00001034 MPP E-Cell Stacks Upgrade	Production-Other	Production-Other	2010/06	41,983	41,983	41,983	41,983
Power Supply	M00001035 MPP Used Oil Blending System	Production-Other	Production-Other	2009/05	100,618	100,618	100,618	100,618
Power Supply	M00001038 M10/M1 Fuel Meter Upgrade	Production-Other	Production-Other	2012/06	174,285	174,285	174,285	174,285
Power Supply	M00001041 M3 Controls Upgrade	Production-Other	Production-Other	2009/09	174,285	174,285	174,285	174,285
Power Supply	M00001042 M2 Controls Upgrade	Production-Other	Production-Other	2009/09	174,153	174,153	174,153	174,153
Power Supply	M00001043 M11 Controls Upgrade	Production-Other	Production-Other	2009/08	68,697	68,697	68,697	68,697
Power Supply	M00001044 MPP Air Compressor Upgrade	Production-Other	Production-Other	2009/04	155,654	155,654	155,654	155,654
Power Supply	M00001045 MOL Units 7-9 Buildings Wall	Production-Other	Production-Other	2009/10	155,851	155,851	155,851	155,851
Power Supply	M00001046 LAN Units 7-8 Buildings Wall	Production-Other	Blanket	64,839	67,584	67,584	67,584	67,584
Power Supply	M22600000 MPP MINOR PS ADDITIONS	Production-Other	Blanket	48,097	50,133	50,133	50,133	50,133
Power Supply	M32000000 MPP MINOR PP ADDITIONS	Production-Other	TK	116,384	121,311	121,311	121,311	121,311
Power Supply	M94200000 TOOLS & EQUIP-PRODUCTION	Production-Other	Production-Other	2009/04	159,650	159,650	159,650	159,650
Power Supply	M00000965 L07 CEMS Upgrade	Production-Other	Production-Other	2009/04	130,660	130,660	130,660	130,660

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<u>Resp Dept</u>	<u>Proj</u>	<u>Project</u>	<u>Functional Category</u>	<u>Plt Add Date</u>	<u>2009 Additions</u>	<u>2010 Additions</u>	<u>2011 Additions</u>	<u>2012 Additions</u>	<u>2013 Additions</u>	<u>Total</u>
Power Supply	M0000967	L08 CEMS Upgrade	Production-Other Lanai	2009/04	155,974					155,974
Power Supply	M0000973	LL-1 & Breakers	Production-Other Lanai	2009/11	145,916					145,916
Power Supply	M0000976	LL-1 Radiator	Production-Other Lanai	2011/12			96,485			96,485
Power Supply	M0000977	LL2 Radiator	Production-Other Lanai	2011/12			96,485			96,485
Power Supply	M0000978	LL4 Radiator	Production-Other Lanai	2010/12	94,127					94,127
Power Supply	M0000979	LL3 Radiator	Production-Other Lanai	2010/12	94,127					94,127
Power Supply	M2602000	LPP MINOR PS ADDITION	Production-Other Lanai	Blanket	14,177	14,777	15,148	15,532	15,916	75,550
Power Supply	M3202000	LPP MINOR PP ADDITIONS	Production-Other Lanai	Blanket	17,381	18,116	18,571	19,042	19,513	92,623
Power Supply	M0000912	G07 CEMS Upgrade	Production-Other Molokk	2009/06	149,202					149,202
Power Supply	M0000913	G08 CEMS Upgrade	Production-Other Molokk	2009/06	149,202					149,202
Power Supply	M0000980	CarT-9 Fuel Meter Upgrade	Production-Other Molokk	2009/06	185,307					185,307
Power Supply	M0000981	G09 CEMS Upgrade	Production-Other Molokk	2009/06	149,202					149,202
Power Supply	M2603000	MOE MINOR PS ADDITION	Production-Other Molokk	Blanket	22,139	23,076	23,654	24,254	24,854	117,977
Power Supply	M3203000	MOE MINOR PP ADDITIONS	Production-Other Molokk	Blanket	17,381	18,116	18,571	19,042	19,513	92,623
Power Supply	M0000789	KPP Condensate Storage Tank Pedestal	Production-Steam	2009/02	316,084					316,084
Power Supply	M0000969	KPP Remote Level Indicator	Production-Steam	2012/09			194,044			194,044
Power Supply	M2601000	KPP MINOR PS ADDITIONS	Production-Steam	Blanket	64,308	67,030	68,711	70,453	72,196	342,698
Power Supply	M3201000	KPP MINOR PP ADDITIONS	Production-Steam	Blanket	29,681	30,937	31,713	32,517	33,321	158,169
Distribution	M0000988	Kokomo 23kV Recloser Addn	Transmission	2009/09 SI	102,537					102,537
Distribution	M0000193	Wailuku Sub #2430-KahReUpgr	Transmission	2009/12	202,323					202,323
Distribution	M0000194	Wailuku Sub #2433-Kahu RelUpgr	Transmission	2009/12	203,372					203,372
Distribution	M0000306	23kV Switch Automation-Wakeea	Transmission	2013/10		257,369				200,630
Distribution	M0000308	New Pillani OH Feeder	Transmission	2010/05						257,369
Distribution	M0000686	Wailuku Tsf #3 Replacement	Transmission	2010/10	721,439					721,439
Distribution	M0000692	Kinei Sub DLP Replacement	Transmission	2010/08	75,596					75,596
Distribution	M0000693	Lahaina Sub DLP Replacement	Transmission	2010/08		75,596				75,596
Distribution	M0000694	Maalaea Sub DLP Replacement	Transmission	2010/08		110,781				110,781
Distribution	M0000696	Wailea Cap Bank Controller	Transmission	2013/04						72,017
Distribution	M0000747	Trans Syst Eq. Purch-Radiatior	Transmission	2011/02	149,518	152,138	152,449	153,757		760,156
Distribution	M0000802	Hana 23kV Maliko-Sub 16	Transmission	2009/04	165,931					165,931
Distribution	M0000920	Lahaina Sub 34 Rpl Tsf 1	Transmission	2009/11	853,930	17,091				871,021
Distribution	M0001039	Kaonolu Sub 2010	Transmission	2011/02						4,386,447
Distribution	M0001047	Replace Lahaina Static Lines	Transmission	2009/03	150,000					150,000
Distribution	M0001077	Keanae 23kv recloser	Transmission	2010	43,269					43,269
Distribution	M0001080	Kanaha substation relay upgrade	Transmission	2012			66,631			66,631
Distribution	M0001081	Kiheli substation relay upgrade	Transmission	2011			66,631			66,631
Distribution	M0001088	Weather stations	Transmission	2010		26,427				26,427
Distribution	M0001089	PV monitoring	Transmission	2010		16,393				16,393
Distribution	M3300000	TRANSMISSION SUB ADDITIONS	Transmission	Blanket	21,051	21,824	22,363	22,922	23,481	111,641
Distribution	M3500000	MINOR TRANSM PLANT LINES	Transmission	Blanket	277,972	283,647	287,433	291,235	292,206	1,432,493
Distribution	M7914000	Repl Trans Equipment	Transmission	Blanket	513,666	518,940	518,940	518,940	518,940	2,589,426
Total Plant Additions for System Reliability Category										
	18,516,556	5,807,857	24,780,848	3,878,819	4,492,944	57,477,023				

System Reliability Depreciation Calculations:

System Reliability Plant Additions:	
Distribution	6,875,346
General Plant	1,392,983
Production	1,188,304
Transmission	864,776
	16,034,141
	1,165,976
	1,013,068
Distribution	7,812,606
General Plant	1,229,588
Production	2,268,608
Transmission	928,333
	732,343
	758,771
	1,460,074
	2,589,426
Distribution	2,640,300
General Plant	2,320,510
Production	5,434,108
Transmission	1,052,177
	1,261,031

<u>Resp Dept</u>	<u>Proj</u>	<u>Project</u>	<u>Functional Category</u>	<u>Plt Add Date</u>	<u>2009 Additions</u>	<u>2010 Additions</u>	<u>2011 Additions</u>	<u>2012 Additions</u>	<u>2013 Additions</u>	<u>Total</u>
Total Reliability					18,516,556	5,807,857	24,780,848	3,878,819	4,492,944	
Composite Depreciation Rates:										
Distribution					4.54%	4.54%	4.54%	4.54%	4.54%	
General Plant					6.28%	6.27%	6.26%	6.26%	6.26%	
Production					3.64%	3.63%	3.64%	3.64%	3.64%	
Transmission					3.35%	3.35%	3.35%	3.35%	3.35%	

System Reliability Depreciation Accrual:

Distribution

General Plant

Production

Transmission

Total Depreciation for System Reliability

Customer Additions Depreciation Calculations:

Customer Additions Plant Adds

Composite Depreciation Rate - Distribution

Customer Additions Depreciation Accrual

Renewables Depreciation Calculations:

Renewables Plant Additions by Project:

Power Supply	M0000816 KWP Electric Shock Absorber	Production-Other	2011/05	2,027,344
Renew Energy	M0001092 KBY PV Engineering	General	2010	1,068,017
Renew Energy	M0001093 KBY PV Warehouse	General	2010	2,015,326
Renew Energy	M0001095 KBY PV Administration	General	2011	892,242
Transmission	M0001060 Oceanlink Interconnection	Transmission	2010	1,723,836

Total Renewables Plant Additions

Renewables Plant Additions by Functional Category:

Distribution

General Plant

Production

Transmission

Total Renewables

Composite Depreciation Rates:

Distribution

General Plant

Production

Transmission

	<u>2009 Additions</u>	<u>2010 Additions</u>	<u>2011 Additions</u>	<u>2012 Additions</u>	<u>2013 Additions</u>
26,712,213	24,111,374	24,429,811	24,804,126	25,079,748	
4.54%	4.54%	4.54%	4.54%	4.54%	
1,212,734	1,094,656	1,109,113	1,126,107	1,138,621	

	<u>2009 Additions</u>	<u>2010 Additions</u>	<u>2011 Additions</u>	<u>2012 Additions</u>	<u>2013 Additions</u>
312,141	63,241	727,950	52,935	45,993	
74,625	54,221	65,354	45,845	47,499	
284,379	44,634	82,577	33,791	53,147	
88,450	77,737	182,043	35,248	42,245	
759,595	239,834	1,057,924	167,819	188,884	

	<u>2009 Additions</u>	<u>2010 Additions</u>	<u>2011 Additions</u>	<u>2012 Additions</u>	<u>2013 Additions</u>
4.54%	4.54%	4.54%	4.54%	4.54%	
6.28%	6.27%	6.26%	6.26%	6.26%	
3.64%	3.63%	3.64%	3.64%	3.64%	
3.35%	3.35%	3.35%	3.35%	3.35%	

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<u>Resp Dept</u>	<u>Proj</u>	<u>Project</u>	<u>Functional Category</u>	<u>Pt Add Date</u>	<u>2009 Additions</u>	<u>2010 Additions</u>	<u>2011 Additions</u>	<u>2012 Additions</u>	<u>2013 Additions</u>	<u>Total</u>
Renewables Depreciation Accrual:										
Distribution										
General Plant										
Production										
Transmission										
Total Reliability										

Others Depreciation Calculations:

Others Plant Adds

Composite Depreciation Rate - General Plant

Others Depreciation Accrual

1,871,412	1,463,084	1,290,306	2,243,229	1,259,206	
6.28%	6.27%	6.26%	6.26%	6.26%	
117,525	91,735	80,773	140,426	78,826	

SUMMARY OF RATE BASE RAMS

<u>Hawaiian Electric</u>	<u>HELCO</u>	<u>MECO</u>
<u>System Reliability</u>		
2004	\$20,441	\$16,995
2005	\$14,326	\$10,372
2006	\$17,765	\$4,581
2007	\$14,143	\$3,769
2008	\$13,053	\$3,706
2009	\$43,317	\$18,115
2010	\$29,731	\$11,733
2011	\$16,167	\$6,087
2012	\$30,130	\$3,307
2013	\$21,208	\$5,734
<u>Customer Additions</u>		
2004	\$4,712	\$1,316
2005	\$1,520	\$2,134
2006	\$1,814	\$3,370
2007	\$1,541	\$3,061
2008	\$3,143	\$3,100
2009	\$2,349	\$3,364
2010	\$5,542	\$3,228
2011	\$4,549	\$2,689
2012	\$4,510	\$2,381
2013	\$5,624	\$2,254
<u>Renewables, Subject to Surcharge</u>		
2004	\$0	\$0
2005	\$0	\$0
2006	\$0	\$0
2007	\$0	\$0
2008	\$0	\$0
2009	\$0	\$0
2010	\$55	\$0
2011	\$1,878	\$0
2012	\$2,313	\$0
2013	\$2,344	\$0
<u>Renewables, Not Surchargeable</u>		
2004	\$0	\$56
2005	(\$0)	\$429
2006	\$0	\$32
2007	\$54	(\$0)
2008	\$46	\$0
2009	\$425	\$0
2010	\$47	\$4
2011	\$14	\$5
2012	\$15	\$5
2013	\$15	\$0
<u>Others</u>		
2004	\$2,339	\$3,139
2005	\$2,818	\$1,813
2006	\$2,789	\$1,619
2007	\$2,441	\$967
2008	\$2,283	\$735
2009	\$2,662	\$1,336
2010	\$1,564	\$1,125
2011	\$1,422	\$1,142
2012	\$1,938	\$911
2013	\$8,182	\$786

INPUTS (\$'000)		B. Depreciation Accruals (for prior year plant adds)		C1. CIAC (for prior year CIAC rec'd)		C2. CIAC Amortization (for prior year CIAC rec'd)		D. ADIT ^z		E. Rev Req for Rate Base (A-B-C1-C2-D)* RORB		F. Rev Req for Expense (B - C2) / Net Rev Conv		G. Rate Base RAM G = E + F	
System Reliability	A. Plant Additions	\$ 41,160	\$ 1,516	\$ -	\$ -	\$ -	\$ -	\$ (7,253)	\$ -	\$ 18,779	\$ -	\$ 1,663	\$ -	\$ 20,441	
2003	\$ 108,378	\$ 70,394	\$ 2,820	\$ -	\$ -	\$ -	\$ -	\$ (691)	\$ -	\$ 11,234	\$ -	\$ 3,093	\$ -	\$ 14,326	
2004	\$ 98,969	\$ 67,358	\$ 2,432	\$ 4,018	\$ -	\$ -	\$ -	\$ (510)	\$ -	\$ 20,098	\$ -	\$ 2,667	\$ -	\$ 17,765	
2005	\$ 67,985	\$ 254,184	\$ 2,104	\$ 1,854	\$ -	\$ -	\$ -	\$ 749	\$ -	\$ 20,077	\$ -	\$ 9,738	\$ -	\$ 14,143	
2006	\$ 182,743	\$ 119,717	\$ 2,145	\$ 5,011	\$ -	\$ -	\$ -	\$ (3,510)	\$ -	\$ 20,088	\$ -	\$ 10,746	\$ -	\$ 13,053	
2007	\$ 76,763	\$ 4,901	\$ -	\$ 768	\$ -	\$ -	\$ -	\$ (13,035)	\$ -	\$ 20,099	\$ -	\$ 41,285	\$ -	\$ 43,317	
2008	\$ 182,743	\$ 3,124	\$ -	\$ (2,381)	\$ -	\$ -	\$ -	\$ (481)	\$ -	\$ 20,110	\$ -	\$ 5,494	\$ -	\$ 29,731	
2009	\$ 119,717	\$ -	\$ -	\$ (544)	\$ -	\$ -	\$ -	\$ 768	\$ -	\$ 20,111	\$ -	\$ 10,792	\$ -	\$ 16,167	
2010	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,112	\$ -	\$ 27,777	\$ -	\$ 2,353	
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,113	\$ -	\$ 17,782	\$ -	\$ 3,426	
2012	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,130	
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,208	

¹ 2003 plant additions provided for the purpose of calculating depreciation accruals for 2004.² Includes both ADIT and ADIT on CIAC.¹ 2003 plant additions provided for the purpose of calculating depreciation accruals for 2004.² Includes both ADIT and ADIT on CIAC.¹ 2003 plant additions provided for the purpose of calculating depreciation accruals for 2004.² Includes both ADIT and ADIT on CIAC.

INPUTS (\$'000)		A. Plant Additions		B. Depreciation Accruals (for prior year plant addts)		C1. CIAC		C2. CIAC Amortization (for prior year CIAC recd)		D. ADIT ²		E. Rev Req for Rate Base		F. Rev Req for Expense		G. Rate Base RAM	
Renewables	2003 ¹	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2004	\$	3	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2005	\$	-	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2006	\$	-	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2007	\$	344	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2008	\$	198	\$	15	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2009	\$	2,270	\$	9	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2010	\$	74	\$	41	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2011	\$	75	\$	3	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2012	\$	76	\$	3	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2013	\$	76	\$	3	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
¹	2003 plant additions provided for the purpose of calculating depreciation accruals for 2004.																
²	Includes both ADIT and ADIT on CIAC.																
INPUTS (\$'000)		A. Plant Additions		B. Depreciation Accruals (for prior year plant addts)		C1. CIAC		C2. CIAC Amortization (for prior year CIAC recd)		D. ADIT ²		E. Rev Req for Rate Base		F. Rev Req for Expense		G. Rate Base RAM	
Others	2003 ¹	\$	9,697	\$	627	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2004	\$	9,753	\$	788	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2005	\$	12,740	\$	1,011	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2006	\$	11,900	\$	906	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2007	\$	10,332	\$	774	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2008	\$	9,026	\$	623	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2009	\$	12,379	\$	775	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2010	\$	5,637	\$	353	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2011	\$	7,178	\$	450	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2012	\$	9,853	\$	49,572	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	2013	\$	49,572	\$	617	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
¹	2003 plant additions provided for the purpose of calculating depreciation accruals for 2004.																
²	Includes both ADIT and ADIT on CIAC.																
OTHER INPUTS		Rate Base (RORB) ³		Revenue Conversion		Net Revenue		Conversion		Factor (Rev Conv) ⁴		E. Rev Req for Rate Base		F. Rev Req for Expense		G. Rate Base RAM	
	2004	9.16%		1.796502		0.9119832											
	2005	9.16%		1.796502		0.9119832											
	2006	8.66%		1.796502		0.9119832											
	2007	8.66%		1.796502		0.9119832											
	2008	8.62%		1.796502		0.9119832											
	2009	8.66%		1.796502		0.9119832											
	2010	8.45%		1.796502		0.9119832											
	2011	8.45%		1.796502		0.9119832											
	2012	8.45%		1.796502		0.9119832											
	2013	8.45%		1.796502		0.9119832											
³	RORBs from Final D&O 14112 dated 12/1/1995 in Dkt. No. 776, Interim D&O 22050 dated 9/27/05 in Dkt. No. 2004-0113, Interim D&O 23749 dated 10/22/07 in Dkt. No. 2006-0386, Final D&O 24171 dated 5/1/08 in Dkt. No. 2004-0113, and Interim D&O dated 7/2/09 in Dkt. No. 2008-0083																
⁴	Refer to the Consumer Advocate's Testimony, Exhibit CA-101, Sch. A-1, line 8, in Dkt. No. 2008-0083																

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ATTACHMENT 3
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INPUTS (\$'000)		B. Depreciation Accruals (for prior year plant adds)		C2. CIA/C Amortization (for prior year CIA/C rec'd)		D. ADIT ²		E. Rev Req for Rate Base (A-B-C1-C2-D)* RCRB*		F. Rev Req for Expense (B - C2) / Net Rev Conv		G. Rate Base RAM G = E + F		
System Reliability	A. Plant Additions	C1. CIA/C	C2. CIA/C Amortization (for prior year CIA/C rec'd)	D. ADIT ²	RESULTS (\$'000)		System Reliability		Rev Conv		16,329 5,096		666 5,276	
2003	\$ 15,614	\$ 604	\$ 862	\$ (3)	\$ 3,320	\$ 2004	\$ 15,614	\$ 604	\$ 862	\$ (3)	\$ 3,320	\$ 666	\$ 16,985	
2004	\$ 104,228	\$ 4,783	\$ 5	\$ (29)	\$ (1,190)	\$ 2005	\$ 34,604	\$ 1,469	\$ 280	\$ (0)	\$ (329)	\$ 5,096	\$ 10,372	
2005	\$ 19,504	\$ 812	\$ -	\$ (9)	\$ (51)	\$ 2006	\$ 18,222	\$ 668	\$ 364	\$ -	\$ 1,533	\$ 2,969	\$ 4,581	
2006	\$ 22,438	\$ 928	\$ -	\$ (12)	\$ -	\$ 2007	\$ 118,145	\$ 5,186	\$ -	\$ 3,066	\$ 2008	\$ 2008	\$ 3,769	
2007	\$ 44,240	\$ 1,492	\$ -	\$ (1,354)	\$ -	\$ 2009	\$ 31,153	\$ 1,113	\$ -	\$ (83)	\$ 2010	\$ 6,047	\$ 18,115	
2008	\$ 14,846	\$ 619	\$ -	\$ (210)	\$ -	\$ 2011	\$ 34,739	\$ 7,874	\$ -	\$ 4,451	\$ 2012	\$ 2,086	\$ 11,733	
2009	\$ 34,739	\$ 7,874	\$ -	\$ 342	\$ -	\$ 2013	\$ 34,739	\$ 619	\$ -	\$ 5,055	\$ 2014	\$ 6,087	\$ 6,087	
2010	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2015	\$ 34,739	\$ 619	\$ -	\$ 6,734	\$ 2016	\$ 3,307	\$ 3,307	
2011	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2017	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2018	\$ 6,734	\$ 6,734	
2012	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2019	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2020	\$ 6,734	\$ 6,734	
2013	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2021	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2022	\$ 6,734	\$ 6,734	
2014	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2023	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2024	\$ 6,734	\$ 6,734	
2015	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2025	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2026	\$ 6,734	\$ 6,734	
2016	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2027	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2028	\$ 6,734	\$ 6,734	
2017	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2029	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2030	\$ 6,734	\$ 6,734	
2018	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2031	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2032	\$ 6,734	\$ 6,734	
2019	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2033	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2034	\$ 6,734	\$ 6,734	
2020	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2035	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2036	\$ 6,734	\$ 6,734	
2021	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2037	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2038	\$ 6,734	\$ 6,734	
2022	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2039	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2040	\$ 6,734	\$ 6,734	
2023	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2041	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2042	\$ 6,734	\$ 6,734	
2024	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2043	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2044	\$ 6,734	\$ 6,734	
2025	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2045	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2046	\$ 6,734	\$ 6,734	
2026	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2047	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2048	\$ 6,734	\$ 6,734	
2027	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2049	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2050	\$ 6,734	\$ 6,734	
2028	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2051	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2052	\$ 6,734	\$ 6,734	
2029	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2053	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2054	\$ 6,734	\$ 6,734	
2030	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2055	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2056	\$ 6,734	\$ 6,734	
2031	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2057	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2058	\$ 6,734	\$ 6,734	
2032	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2059	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2060	\$ 6,734	\$ 6,734	
2033	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2061	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2062	\$ 6,734	\$ 6,734	
2034	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2063	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2064	\$ 6,734	\$ 6,734	
2035	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2065	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2066	\$ 6,734	\$ 6,734	
2036	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2067	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2068	\$ 6,734	\$ 6,734	
2037	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2069	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2070	\$ 6,734	\$ 6,734	
2038	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2071	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2072	\$ 6,734	\$ 6,734	
2039	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2073	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2074	\$ 6,734	\$ 6,734	
2040	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2075	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2076	\$ 6,734	\$ 6,734	
2041	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2077	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2078	\$ 6,734	\$ 6,734	
2042	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2079	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2080	\$ 6,734	\$ 6,734	
2043	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2081	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2082	\$ 6,734	\$ 6,734	
2044	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2083	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2084	\$ 6,734	\$ 6,734	
2045	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2085	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2086	\$ 6,734	\$ 6,734	
2046	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2087	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2088	\$ 6,734	\$ 6,734	
2047	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2089	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2090	\$ 6,734	\$ 6,734	
2048	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2091	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2092	\$ 6,734	\$ 6,734	
2049	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2093	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2094	\$ 6,734	\$ 6,734	
2050	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2095	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2096	\$ 6,734	\$ 6,734	
2051	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2097	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2098	\$ 6,734	\$ 6,734	
2052	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2099	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2100	\$ 6,734	\$ 6,734	
2053	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2101	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2102	\$ 6,734	\$ 6,734	
2054	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2103	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2104	\$ 6,734	\$ 6,734	
2055	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2105	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2106	\$ 6,734	\$ 6,734	
2056	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2107	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2108	\$ 6,734	\$ 6,734	
2057	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2109	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2110	\$ 6,734	\$ 6,734	
2058	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2111	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2112	\$ 6,734	\$ 6,734	
2059	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2113	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2114	\$ 6,734	\$ 6,734	
2060	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2115	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2116	\$ 6,734	\$ 6,734	
2061	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2117	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2118	\$ 6,734	\$ 6,734	
2062	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2119	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2120	\$ 6,734	\$ 6,734	
2063	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2121	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2122	\$ 6,734	\$ 6,734	
2064	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2123	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2124	\$ 6,734	\$ 6,734	
2065	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2125	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2126	\$ 6,734	\$ 6,734	
2066	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2127	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2128	\$ 6,734	\$ 6,734	
2067	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2129	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2130	\$ 6,734	\$ 6,734	
2068	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2131	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2132	\$ 6,734	\$ 6,734	
2069	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2133	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2134	\$ 6,734	\$ 6,734	
2070	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2135	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2136	\$ 6,734	\$ 6,734	
2071	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2137	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2138	\$ 6,734	\$ 6,734	
2072	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2139	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2140	\$ 6,734	\$ 6,734	
2073	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2141	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2142	\$ 6,734	\$ 6,734	
2074	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2143	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2144	\$ 6,734	\$ 6,734	
2075	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2145	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2146	\$ 6,734	\$ 6,734	
2076	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2147	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2148	\$ 6,734	\$ 6,734	
2077	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2149	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2150	\$ 6,734	\$ 6,734	
2078	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2151	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2152	\$ 6,734	\$ 6,734	
2079	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2153	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2154	\$ 6,734	\$ 6,734	
2080	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2155	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2156	\$ 6,734	\$ 6,734	
2081	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2157	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2158	\$ 6,734	\$ 6,734	
2082	\$ 34,739	\$ 619	\$ -	\$ -	\$ -	\$ 2159	\$ 34,739	\$ 619	\$ -	\$ -	\$ 2160	\$ 6,734	\$ 6,734	
2083	\$ 34,739	\$ 619												

INPUTS (\$'000)		B. Depreciation Accruals (for prior year plant adds)		C1. CIAC (for prior year CIAC rec'd)		C2. CIAC Amortization (for prior year CIAC rec'd)		D. ADIT ²		E. Rev. Req for Rate Base (A-B-C1-C2-D) * RORB [*] Rev Conv		F. Rev. Req for Expense (B - C2) / Net Rev Conv		G. Rate Base RAM G = E + F	
Renewables	2003 ¹	A. Plant Additions	19	\$ 411	\$ 19	\$ -	\$ -	\$ 73	\$ 59	\$ 55	\$ 1	\$ 20	\$ 35	\$ 56	
	2004	\$ 2,566	\$ 0	\$ 19	\$ 32	\$ -	\$ -	\$ (12)	\$ 0	\$ 409	\$ 1	\$ 20	\$ 35	\$ 429	
	2005	\$ 2,566	\$ 0	\$ 32	\$ -	\$ -	\$ -	\$ (12)	\$ 0	\$ (3)	\$ 1	\$ 20	\$ 35	\$ 32	
	2006	\$ 2,566	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ (0)	\$ 1	\$ 20	\$ 35	\$ (0)	
	2007	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	2008	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	2009	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	2010	\$ 26	\$ -	\$ 1	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 2009	\$ -	\$ -	\$ -	\$ -	
	2011	\$ 26	\$ -	\$ 1	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 2010	\$ 4	\$ 4	\$ 4	\$ 4	
	2012	\$ 26	\$ -	\$ 1	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 2011	\$ 4	\$ 4	\$ 4	\$ 4	
	2013	\$ 26	\$ -	\$ 1	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 2012	\$ 4	\$ 4	\$ 4	\$ 4	
		1	2003 plant additions provided for the purpose of calculating depreciation accruals for 2004.												
		2	Includes both ADIT and ADIT on CIAC.												
INPUTS (\$'000)		B. Depreciation Accruals (for prior year plant adds)		C1. CIAC (for prior year CIAC rec'd)		C2. CIAC Amortization (for prior year CIAC rec'd)		D. ADIT ²		E. Rev. Req for Rate Base (A-B-C1-C2-D) * RORB [*] Rev Conv		F. Rev. Req for Expense (B - C2) / Net Rev Conv		G. Rate Base RAM G = E + F	
Others	2003 ¹	A. Plant Additions	3,592	\$ 18,549	\$ 165	\$ -	\$ -	\$ 369	\$ (264)	\$ 2,958	\$ 181	\$ 961	\$ 3,139	\$ 1,813	
	2004	\$ 5,805	\$ 0	\$ 876	\$ 264	\$ -	\$ -	\$ (2)	\$ (73)	\$ 853	\$ 181	\$ 290	\$ 1,619		
	2005	\$ 8,357	\$ 0	\$ 300	\$ 198	\$ -	\$ -	\$ 296	\$ 2008	\$ 638	\$ 217	\$ 203	\$ 967		
	2006	\$ 4,110	\$ 0	\$ 185	\$ 185	\$ -	\$ -	\$ 390	\$ 2009	\$ 518	\$ 217	\$ 203	\$ 735		
	2007	\$ 3,954	\$ 0	\$ 350	\$ 235	\$ -	\$ -	\$ (51)	\$ 2010	\$ 1,133	\$ 203	\$ 203	\$ 1,336		
	2008	\$ 8,148	\$ 0	\$ 298	\$ 298	\$ -	\$ -	\$ (11)	\$ 2011	\$ 741	\$ 384	\$ 384	\$ 1,125		
	2009	\$ 5,250	\$ 0	\$ 203	\$ 203	\$ -	\$ -	\$ (20)	\$ 2012	\$ 584	\$ 327	\$ 327	\$ 1,142		
	2010	\$ 6,130	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ (17)	\$ 2013	\$ 563	\$ 223	\$ 223	\$ 786		
		1	2003 plant additions provided for the purpose of calculating depreciation accruals for 2004.												
		2	Includes both ADIT and ADIT on CIAC.												
OTHER INPUTS		Rate Base (RORB) ³		Factor (Rev Conv) ⁴		Revenue Conversion		Net Revenue Conversion		E. Rev. Req for Rate Base (A-B-C1-C2-D) * RORB [*] Rev Conv		F. Rev. Req for Expense (B - C2) / Net Rev Conv		G. Rate Base RAM G = E + F	
	2004	9.14%	9.14%	1.796502	1.796502	0.9119832	0.9119832								
	2005	9.14%	9.14%	1.796502	1.796502	0.9119832	0.9119832								
	2006	9.14%	9.14%	1.796502	1.796502	0.9119832	0.9119832								
	2007	9.14%	9.14%	1.796502	1.796502	0.9119832	0.9119832								
	2008	8.33%	8.33%	1.796502	1.796502	0.9119832	0.9119832								
	2009	8.33%	8.33%	1.796502	1.796502	0.9119832	0.9119832								
	2010	8.33%	8.33%	1.796502	1.796502	0.9119832	0.9119832								
	2011	8.33%	8.33%	1.796502	1.796502	0.9119832	0.9119832								
	2012	8.33%	8.33%	1.796502	1.796502	0.9119832	0.9119832								
	2013	8.33%	8.33%	1.796502	1.796502	0.9119832	0.9119832								

³ RORBs from Final D&O 16922 dated 4/6/99 in Dkt. No. 97-0346, Interim D&O 23926 dated 12/21/07 in Dkt. No. 2006-0387
⁴ Refer to the Consumer Advocate's Testimony, Exhibit CA-101, Sch. A-1, line 8, in Dkt. No. 2008-0083

INPUTS (\$'000)		A. Plant Additions		B. Depreciation Accruals (for prior year plant adds)		C1. CIAC		C2. CIAC Amortization (for prior year CIAC rec'd)		D. ADIT ¹		CALCULATION/ RESULTS (\$'000)		E. Rev Req for Rate Base (A-B-C1-C2-D) * RORB * Rev Conv		F. Rev Req for Expense (B - C2) / Net Rev Conv		G. Rate Base RAM G = E + F			
System Reliability	1	\$ 12,751	\$ 13,715	\$ 516	\$ 574	\$ 344	\$ 2,472	\$ 455	\$ 632	\$ 760	\$ 240	\$ 1,058	\$ 168	\$ 817	\$ 6,974	\$ 8,14	\$ 2,816	\$ 2,101	\$ 566	\$ 2,327	
2003	\$																		\$ 1,278	\$ 629	\$ 1,907
2004	\$																		\$ 11,100	\$ 377	\$ 11,478
2005	\$																		\$ 1,563	\$ 2,710	\$ 4,274
2006	\$																		\$ 2,112	\$ 459	\$ 2,611
2007	\$																		\$ 2,008	\$ 2,706	\$ 3,399
2008	\$																		\$ 514	\$ 813	\$ 1,646
2009	\$																		\$ 168	\$ 322	\$ 4,035
2010	\$																		\$ 320	\$ 489	\$ 1,649
2011	\$																		\$ 38	\$ 668	\$ 852
2012	\$																		\$ 2013	\$ 184	
2013	\$																				
¹ 2003 plant additions provided for the purpose of calculating depreciation accruals for 2004.																					
² Includes both ADIT and ADIT on CIAC.																					
INPUTS (\$'000)		A. Plant Additions		B. Depreciation Accruals (for prior year plant adds)		C1. CIAC		C2. CIAC Amortization (for prior year CIAC rec'd)		D. ADIT ²		CALCULATION/ RESULTS (\$'000)		E. Rev Req for Rate Base (A-B-C1-C2-D) * RORB * Rev Conv		F. Rev Req for Expense (B - C2) / Net Rev Conv		G. Rate Base RAM G = E + F			
Customer Additions		\$ 17,962	\$ 9,016	\$ 817	\$ 411	\$ 6,974	\$ 742	\$ 2,816	\$ (294)	\$ (94)	\$ (2,643.25)	\$ (232.90)	\$ 2004	\$ 937	\$ 1,369	\$ 1,218	\$ 554	\$ 2,155			
2003	\$																	\$ 2005	\$ 1,555	\$ 1,923	
2004	\$																	\$ 2006	\$ 1,821	\$ 2,473	
2005	\$																	\$ 2007	\$ 2,311	\$ 2,981	
2006	\$																	\$ 2008	\$ 2,253	\$ 3,590	
2007	\$																	\$ 2009	\$ 2,179	\$ 4,026	
2008	\$																	\$ 2010	\$ 2,219	\$ 3,937	
2009	\$																	\$ 2011	\$ 1,718	\$ 3,985	
2010	\$																	\$ 2012	\$ 1,741	\$ 4,047	
2011	\$																	\$ 2013	\$ 1,759		
2012	\$																				
2013	\$																				
¹ 2003 plant additions provided for the purpose of calculating depreciation accruals for 2004.																					
² Includes both ADIT and ADIT on CIAC.																					
INPUTS (\$'000)		A. Plant Additions		B. Depreciation Accruals (for prior year plant adds)		C1. CIAC		C2. CIAC Amortization (for prior year CIAC rec'd)		D. ADIT ¹		CALCULATION/ RESULTS (\$'000)		E. Rev Req for Rate Base (A-B-C1-C2-D) * RORB * Rev Conv		F. Rev Req for Expense (B - C2) / Net Rev Conv		G. Rate Base RAM G = E + F			
REIP (w/ surcharge)		\$ 17,962	\$ 9,016	\$ 817	\$ 411	\$ 6,974	\$ 742	\$ 2,816	\$ (294)	\$ (94)	\$ (2,643.25)	\$ (232.90)	\$ 2004	\$ 937	\$ 1,369	\$ 1,218	\$ 554	\$ 2,155			
2003	\$																	\$ 2005	\$ 1,555	\$ 1,923	
2004	\$																	\$ 2006	\$ 1,821	\$ 2,473	
2005	\$																	\$ 2007	\$ 2,311	\$ 2,981	
2006	\$																	\$ 2008	\$ 2,253	\$ 3,590	
2007	\$																	\$ 2009	\$ 2,179	\$ 4,026	
2008	\$																	\$ 2010	\$ 2,219	\$ 3,937	
2009	\$																	\$ 2011	\$ 1,718	\$ 3,985	
2010	\$																	\$ 2012	\$ 1,741	\$ 4,047	
2011	\$																	\$ 2013	\$ 1,759		
2012	\$																				
2013	\$																				
¹ 2003 plant additions provided for the purpose of calculating depreciation accruals for 2004.																					
² Includes both ADIT and ADIT on CIAC.																					

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RATE BASE RAM CALCULATION BASED ON NRR's PUC-IR-52 (PUC-IR-3 DATED JULY 15, 2009)

MECO

INPUTS (\$'000)		B. Depreciation Accruals (for prior year plant adds)	C1. CIAC	C2. CIAC Amortization (for prior year CIAC rec'd)	D. ADIT ¹	E. Rev Req for Rate Base (A-B-C1-C2-D)* RORB * Rev Conv	F. Rev Req for Expense (B - C2) / Net Rev Conv	G. Rate Base RAM G = E + F
Renewables	A. Plant Additions							
2003 ¹	\$ 2,566	\$ -	\$ -	\$ -	\$ -	\$ 3.63	\$ -	\$ -
2004	\$ -	\$ 10	\$ 502	\$ -	\$ (17)	\$ (190.94)	\$ 2005	\$ (1)
2005	\$ -	\$ 21	\$ -	\$ -	\$ (1.00)	\$ (199.51)	\$ 2006	\$ 39
2006	\$ -	\$ 0	\$ 567	\$ -	\$ (19)	\$ (5.95)	\$ 2007	\$ 1
2007	\$ -	\$ 34	\$ -	\$ -	\$ -	\$ 85.14	\$ 2008	\$ 59
2008	\$ -	\$ 170	\$ -	\$ -	\$ -	\$ (19.08)	\$ 2009	\$ (1)
2009	\$ 4,807	\$ -	\$ 100	\$ -	\$ -	\$ (39.06)	\$ 2010	\$ 735
2010	\$ 2,920	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2011	\$ 431
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2012	\$ 186
2012	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2013	\$ 110
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 101

¹ 2003 plant additions provided for the purpose of calculating depreciation accruals for 2004.

² Includes both ADIT and ADIT on CIAC.

INPUTS (\$'000)		B. Depreciation Accruals (for prior year plant adds)	C1. CIAC	C2. CIAC Amortization (for prior year CIAC rec'd)	D. ADIT ²	E. Rev Req for Rate Base (A-B-C1-C2-D)* RORB * Rev Conv	F. Rev Req for Expense (B - C2) / Net Rev Conv	G. Rate Base RAM G = E + F
Others	A. Plant Additions							
2003 ¹	\$ 5,256	\$ 340	\$ -	\$ -	\$ -	\$ 531.28	\$ 416	\$ 372
2004	\$ 3,493	\$ 225	\$ -	\$ -	\$ -	\$ 40.94	\$ 324	\$ 247
2005	\$ 2,311	\$ 145	\$ -	\$ -	\$ -	\$ (33.77)	\$ 2006	\$ 47
2006	\$ 408	\$ 26	\$ -	\$ -	\$ -	\$ 33.87	\$ 2007	\$ 116
2007	\$ 788	\$ 50	\$ -	\$ -	\$ -	\$ 286.29	\$ 2008	\$ 265
2008	\$ 2,036	\$ 127	\$ -	\$ -	\$ -	\$ 280.01	\$ 2009	\$ 228
2009	\$ 1,871	\$ 118	\$ -	\$ -	\$ -	\$ 35.62	\$ 2010	\$ 204
2010	\$ 1,463	\$ 92	\$ -	\$ -	\$ -	\$ 36.05	\$ 2011	\$ 181
2011	\$ 1,290	\$ 81	\$ -	\$ -	\$ -	\$ 93.30	\$ 2012	\$ 322
2012	\$ 2,243	\$ 140	\$ -	\$ -	\$ -	\$ 15.37	\$ 2013	\$ 172
2013	\$ 1,259	\$ -	\$ -	\$ -	\$ -	\$ -		\$ 154

¹ 2003 plant additions provided for the purpose of calculating depreciation accruals for 2004.

² Includes both ADIT and ADIT on CIAC.

OTHER INPUTS	Rate of Return on Ave	Revenue Conversion	Net Revenue Conversion
	Rate Base (RORB) ³	Factor (Rev Conv) ⁴	Factor (Rev Conv)
2004	8.83%	1.798502	0.9119832
2005	8.83%	1.798502	0.9119832
2006	8.83%	1.798502	0.9119832
2007	8.83%	1.798502	0.9119832
2008	8.67%	1.798502	0.9119832
2009	8.67%	1.798502	0.9119832
2010	8.67%	1.798502	0.9119832
2011	8.67%	1.798502	0.9119832
2012	8.67%	1.798502	0.9119832
2013	8.67%	1.798502	0.9119832

³ RORBs from Final D&O 16922 dated 4/6/99 in Dkt. No. 97-0346, Interim D&O 23926 dated 12/21/07 in Dkt. No. 2008-0083

⁴ Refer to the Consumer Advocate's Testimony, Exhibit CA-101, Sch. A-1, line 8, in Dkt. No. 2008-0083

Decoupling Docket
PUC IR-52, subpart C:

Please quantify the effect (both revenue and projected ROE) of each of the following revenue enhancement tools associated with sales decoupling, with and without a RPC with reset (i.e., two cases for each letter below), consistent with the layout used by the HECO Companies in their most recent response to PUC-IR-14. Please provide the information prospectively **and historically** (as if in place).

- c. Inter-rate case revenue adjustment equal to difference in operating and maintenance costs associated with complying with Act 155, from those included in base rates. Adjustments would operate similar to the ECAC mechanism and occur quarterly.

Instructions to Complete O&M Expenses Estimation Template: In order to respond to this IR, estimates of the portion (in \$) of each company's O&M budget from 2009 through 2013 associated with the generation and delivery of renewable energy generation (utility and IPP) and with the installation and use of EE and LM DSM (utility and TPA) will be required.

Some examples of O&M costs which should be considered for inclusion as part of O&M associated RE generation and DSM include:

1. O&M associated with utility RE generation.
2. O&M associated with utility transmission which ties and or otherwise supports the operation of IPP RE generation; examples include line inspections, vegetation management, etc. related to transmission circuits and switching stations which support the operation of utility or IPP RE generation.
3. O&M associated with utility distribution which ties and or otherwise supports the operation of IPP RE generation; examples include line inspections, vegetation management, etc. related to distribution circuits and switching stations which support the operation of utility or IPP RE generation. (Note that this item should consider distribution O&M related to including PPA contracted as well as NEM or other small customer RE generation).
4. O&M associated with utility communications and control systems which ties and or otherwise supports the operation of IPP RE generation.
5. O&M associated with utility staff support to perform studies, engineering, negotiate contracts, administer contracts, coordinate operations, etc related to IPP RE generation.
6. O&M associated with utility fossil generation which may be associated with the integration of utility or IPP RE generation; examples include incremental O&M related to changes in the way fossil generation operates.
7. Since the IR requests for projections of future years 2009 through 2013, the aforementioned cost categories in items 1 through 6 much also consider future RE generators that are planned for each company's system. For IR response purposes, we should assume some future additions such as:

- a. The continuation of NEM
 - b. HELCO: Addition of PGV 8MW in year ____
 - c. MECO: Addition of KWP II 21 MW in year ____
 - d. HECO: Addition of Kahuku Wind 30 MW in year 2010
 - e. HECO: Addition of CIP CT-1 in year 2009.
8. For items 1 and 2 of the template, if an O&M expense item is not in the company's current base rates but will be recovered in future years/rate cases in base rates, then those items should NOT be included.
 9. For items 1 and 2, programs should also include non-recurring work activities done on a specific need or other purposes basis.
 10. When in doubt whether to include an O&M expense item or not, please include it in the template but highlight the item in yellow, and provide explanation on that particular item in the comment column

Figures in (\$1,000s)										Assumptions/Comments
Company:										
Dept:										
Division:										
	2009	2010	2011	2012	2013					
1. Existing discrete identifiable Act 155 O&M expenses not in current HECO TY 2009/2010-2013 budget or HELCO/MECO 2009-2013 budget attributed to specific programs or projects										
a Energy efficiency programs										Please describe project and assumption used to estimating O&M expenses
b NEM										
c										
d										
e										
f										
g										
z										
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -					
2. Existing non-identified Act 155 O&M expenses not in current HECO TY 2009/2010-2013 budget or HELCO/MECO 2009-2013 budget and not specifically attributed to projects and programs										
a O&M with utility RE generation										
b O&M with IPP RE generation										
c O&M associated with substation maintenance										
d O&M associated with line inspections										
e O&M associated with line maintenance										
f O&M associated with vegetation management										
g O&M associated with communication & control systems										
h O&M associated with staff support										
i Incremental O&M associated with fossil generation resulting from RE integration (Utility or IPP)										
j										
k										
l										
m										
n										
o										
p										
q										
r										
z										
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -					
3. Future discrete identifiable Act 155 O&M expenses not in current HECO TY 2009/2010-2013 or HELCO/MECO 2009-2013 budget (and not recovered through surcharges) attributed to specific projects or programs.										
a FIT										
b PV Host										
c Kahuku Wind 30 MW project										
d CIP CT-1										
e PGV +8MW										
f H-Power Expansion										
g Kahe 3 Biofuel Testing										
h Big Wind Integration Study										
i Big Wind Implementation Cost										
j AMI Labor										
k KWP II										
l Hu Honua										
m Sea Solar										
n HECO 100 MW RE RFP										
o RE projection proposals under competitive bid threshold										
p Sopogy										
q Tradewinds										
r Auwahi										
z										
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -					
4. Total Act 155 O&M estimates	\$ -	\$ -	\$ -	\$ -	\$ -					

**Summary of Act 155 O&M Expenses and RAMs
 (In \$1,000's)**

			2009	2010	2011	2012	2013
HECO	Power Supply	Big Wind Impl Study-NonLabor	\$ 700	\$ 500	\$ 300		
		Power Supply Engrg-NonLabor	\$ 575	\$ 300	\$ 300		
		Environmental-NonLabor	\$ 20	\$ 20	\$ 20	\$ 21	\$ 22
		Environmental-Labor	\$ 16	\$ 16	\$ 17	\$ 17	\$ 18
		Fuels-NonLabor		\$ 50	\$ 50	\$ 52	\$ 54
	Systems Integration	Labor	\$ 1,015	\$ 1,909	\$ 2,005	\$ 2,066	\$ 2,128
		Non-Labor	\$ 1,290	\$ 2,798	\$ 1,968	\$ 1,395	\$ 1,396
		Reimbursed by Developers	\$ (315)	\$ (630)	\$ (634)	\$ (639)	\$ (644)
	Energy Solution Resources Acquisition	NEM	\$ -	\$ 428	\$ 463	\$ 470	\$ 478
		NEM		\$ 2	\$ 50	\$ 932	\$ 100
		FIT				\$ 200	\$ 100
		Kahe 3 Biofuel Testing		\$ 300	\$ 300	\$ 300	\$ 300
		Total HECO Act 155 O&M Expenses	\$ 3,301	\$ 5,693	\$ 4,839	\$ 4,814	\$ 3,953
		HECO Act 155 O&M RAM	\$ 3,620	\$ 6,242	\$ 5,306	\$ 5,279	\$ 4,334
HELCO	Consolidated	NEM	\$ 50	\$ 50	\$ 52	\$ 53	\$ 55
		Total HELCO Act 155 O&M Expenses	\$ 50	\$ 50	\$ 52	\$ 53	\$ 55
		HELCO Act 155 O&M RAM	\$ 55	\$ 55	\$ 57	\$ 58	\$ 60
MECO	Power Supply Renewable Energy	Biodiesel Demo Project	\$ 55	\$ 192	\$ 36		
		EE-SSP		\$ 64	\$ 83	\$ 83	\$ 83
		IPP RE Generation Legal Svcs	\$ 20	\$ 20	\$ 20	\$ 21	\$ 21
		Renewable Energy Director		\$ 65	\$ 67	\$ 70	\$ 72
		PV Host		\$ 315	\$ 440	\$ 290	
		RE Proposals Evaluation	\$ 76	\$ 76	\$ 77	\$ 80	\$ 83
		KBY PV Projects Maintenance		\$ 8	\$ 16	\$ 17	\$ 17
	T&D	O&M with Substation Maintenance		\$ 206	\$ 208	\$ 210	\$ 212
		O&M with Line Inspection		\$ 30	\$ 30	\$ 31	\$ 31
		O&M with Line Maintenance		\$ 326	\$ 329	\$ 333	\$ 336
		O&M with Vegetable Management		\$ 124	\$ 125	\$ 126	\$ 128
		O&M with Comm Equipment		\$ 50	\$ 50	\$ 51	\$ 52
		O&M with Staff Support (unable to quantify)		\$ -	\$ -	\$ -	\$ -
		KWP II Outside Services	\$ 285				
		Total MECO Act 155 O&M Expenses	\$ 436	\$ 1,476	\$ 1,481	\$ 1,312	\$ 1,035
		MECO Act 155 O&M RAM	\$ 478	\$ 1,618	\$ 1,624	\$ 1,439	\$ 1,135

Net Revenue Conversion Factor: 0.911983
 Per CA-101, Schedule A-1, Line 8, CA Proposed Column, Docket No. 2008-0083

O&M EXPENSE RAM						
Incremental Annual RAM (added to prior year's revenue estimate)						
YEAR	HECO	HELCO	MECO	HECO Comments	HELCO Comments	MECO Comments
2004	NA	NA	NA			
2005	\$1,892	N.1	\$1,379	N.1	\$636	N.1
2006	\$4,336	N.1	\$2,192	N.1	\$815	N.1
2007	\$3,125	N.1	\$489	N.1	\$1,104	N.1
2008	\$4,720	N.1	\$1,279	N.1	\$1,400	N.1
2009	\$2,970	N.3	\$1,424	N.1	\$1,080	N.1
2010	\$5,281	N.2	\$0	Assumed RAM effective 1/1/2010.	Assumed \$0 RAM for 2010. Assumed ID&O from 2010 TY rate case received 10/1/10 with decoupling starting at that time and first RAM adjustment in 2011.	Assumed \$0 RAM for 2010. Assumed ID&O from 2010 TY rate case received 10/1/10 with decoupling starting at that time and first RAM adjustment in 2011.
2011	\$2,237	N.2	\$1,004	N.4	\$635	N.4
						For 2011, assumed RAM for the first 6 months, then reset for TY2011 interim rate relief assumed at 7/1/2011. The O&M RAM revenues for 2011 was equal to one-half of the 2010 RAM \$5281 and the 2011 RAM \$2237.
2012	\$4,687	N.2	\$814	N.4	\$889	N.4
						Assumed RAM effective 1/1/2012.
2013	\$3,940	N.2	\$905	N.4	\$1,076	N.4
						The O&M RAM revenues for 2013 was equal to 2012 RAM \$4687 and 2013 RAM \$3940.

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Comparison of NRR's Proposed Revenue Enhancements/RAMS with Joint Proposal
With RPC with Reset
Summary of ROE's

		(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
I. With RPC with Reset												
HECO	Joint Proposal RB and O&M RAM	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	52a - System Reliability RAM	10.67%	9.36%	9.25%	6.84%	9.27%						
	52b - Customer Addition RAM	9.24%	7.58%	8.12%	5.13%	8.97%						
	52c - Act 155 O&M RAM	8.81%	7.19%	8.00%	4.93%	8.79%						
	52d - Joint Proposal O&M RAM	8.81%	7.31%	8.35%	5.41%	9.07%						
	52e - 52a, b, & c	11.10%	9.74%	9.36%	7.02%	9.43%						
	52f - 52a, b, & d	11.10%	9.86%	9.69%	7.46%	9.69%						
HELCO												
	Joint Proposal RB and O&M RAM	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	52a - System Reliability RAM	12.58%	15.86%	15.39%	11.50%	10.97%						
	52b - Customer Addition RAM	8.08%	9.43%	8.47%	9.72%	10.82%						
	52c - Act 155 O&M RAM	7.70%	8.46%	6.50%	9.03%	10.05%						
	52d - Joint Proposal O&M RAM	7.70%	8.85%	7.54%	9.31%	10.37%						
	52e - 52a, b, & c	12.94%	16.75%	17.18%	12.18%	11.73%						
	52f - 52a, b, & d	12.94%	17.10%	18.10%	12.45%	12.04%						
MECO												
	Joint Proposal RB and O&M RAM	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	52a - System Reliability RAM	11.88%	12.11%	16.11%	13.35%	9.88%						
	52b - Customer Addition RAM	11.83%	12.07%	13.47%	10.53%	10.12%						
	52c - Act 155 O&M RAM	11.19%	10.88%	11.59%	7.96%	9.19%						
	52d - Joint Proposal O&M RAM	11.19%	11.07%	12.00%	8.65%	9.56%						
	52e - 52a, b, & c	12.52%	13.30%	18.00%	15.92%	10.81%						
	52f - 52a, b, & d	12.52%	13.48%	18.42%	16.61%	11.18%						

Note:

(1) The HELCO Companies' PUC-IR-14 filing (revised 6/29/09 for HECO and HELCO, 6/25/09 for MECO) included the effect of the sales decoupling component (i.e. the revenue balancing account ("RBA"))

only for the prospective years after the test year rate cases where sales decoupling and the RBA were assumed to have been approved by the Commission. These prospective years would be 2010 to 2013 for HECO, and 2011 to 2013 for HELCO and MECO (shaded). To simplify the calculations for the NRRI RAMs, NRRI agreed to use the historical recorded or projected earnings as shown on Attachment 1,

line 22, without calculating and incorporating the sales decoupling adjustment. Where there was sales growth in the historical/projected years as shown on Attachment 1, line 136, these ROE percentages are overstated as the historical/projected earnings shown on Attachment 1, line 22, would have included the additional revenue and earnings from the sales growth. The reverse is true for the historical/projected years when there is a sales decline, as these ROE percentages are understated from not having adjusted revenue and earnings for the short fall in sales. See this response' narrative, item 3 for additional details and discussion.

(2) MECO's 2013 ROE for PUC-IR-14 is higher than the revised 6/25/09 PUC-IR-52d is due to the projected rate base RAM in 2013 having a negative value.

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Comparison of NRRRI's Proposed Revenue Enhancements/RAMS with Joint Proposal
Without RPC with Reset
Summary of ROE's

	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
II. Without RPC with Reset												
HECO	Joint Proposal RB and O&M RAM	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	52a - System Reliability RAM	10.62%	9.14%	8.98%	6.53%	9.28%						
	52b - Customer Addition RAM	9.18%	7.36%	7.84%	4.80%	8.97%						
	52c - Act 155 O&M RAM	8.76%	6.96%	7.72%	4.60%	8.80%						
	52d - Joint Proposal O&M RAM	8.76%	7.08%	8.07%	5.08%	9.08%						
	52e - 52a, b, & c	11.04%	9.52%	9.09%	6.72%	9.44%						
	52f - 52a, b, & d	11.04%	9.64%	9.43%	7.17%	9.70%						
(2)												
HELCO	Joint Proposal RB and O&M RAM	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	52a - System Reliability RAM	11.90%	14.38%	13.00%	10.67%	10.31%						
	52b - Customer Addition RAM	7.37%	7.84%	5.91%	8.87%	10.16%						
	52c - Act 155 O&M RAM	6.98%	6.86%	3.88%	8.17%	9.39%						
	52d - Joint Proposal O&M RAM	6.98%	7.25%	4.95%	8.46%	9.71%						
	52e - 52a, b, & c	12.27%	15.29%	14.84%	11.35%	11.08%						
	52f - 52a, b, & d	12.27%	15.65%	15.79%	11.63%	11.39%						
(2)												
MECO	Joint Proposal RB and O&M RAM	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	52a - System Reliability RAM	11.32%	11.01%	14.47%	11.30%	9.18%						
	52b - Customer Addition RAM	11.27%	10.97%	11.83%	8.49%	9.42%						
	52c - Act 155 O&M RAM	10.63%	9.78%	9.95%	5.92%	8.49%						
	52d - Joint Proposal O&M RAM	10.63%	9.97%	10.36%	6.61%	8.86%						
	52e - 52a, b, & c	11.96%	12.19%	16.36%	13.87%	10.11%						
	52f - 52a, b, & d	11.96%	12.38%	16.78%	14.56%	10.47%						

Note:

- (1) The HELCO Companies' PUC-IR-14 filing (revised 6/29/09 for HECO and HELCO, 6/25/09 for MECO) included the effect of the sales decoupling component (i.e. the revenue balancing account ("RBA")) only for the prospective years after the test year rate cases where sales decoupling and the RBA were assumed to have been approved by the Commission. These prospective years would be 2010 to 2013 for HECO, and 2011 to 2013 for HELCO and MECO (shaded). To simplify the calculations for the NRRRI RAMS, NRRRI agreed to use the historical recorded or projected earnings as shown on Attachment 1, line 22, without calculating and incorporating the sales decoupling adjustment. Where there was sales growth in the historical/projected years as shown on Attachment 1, line 136, these ROE percentages are overstated as the historical/projected earnings shown on Attachment 1, line 22, would have included the additional revenue and earnings from the sales growth. The reverse is true for the historical/projected years when there is a sales decline, as these ROE percentages are understated from not having adjusted revenue and earnings for the short fall in sales. See this response narrative, item 3 for additional details and discussion.
- (2) MECO's 2013 ROE for PUC-IR-52d is higher than the revised 6/25/09 PUC-IR-14 filing due to the projected rate base RAM in 2013 having a negative value.

PUC-IR-53

Please quantify the effect that spinning reserve has on the utility's heat rate and what the effect would have been for the period 2004-2008 if fuel used for spinning reserve had not been included in the heat rate calculation.

HECO Response:

First, HECO would like to establish definitions of spinning reserve and regulating reserve to facilitate an understanding of these parameters and their effects on heat rate. Spinning reserve is the amount of reserve capacity that is immediately available from units that are connected to the system and are operating below their maximum rated levels. Spinning reserve is the difference between the total amount of generating capacity connected to the system and operating and the total demand on the system. For example, if the total system demand is 100 MW and three 50 MW units are operating to serve this demand, the total amount of generation in operation is 150 MW. Only 100 MW of the three units' aggregate capacity are being used to serve the demand, and there are 50 MW of spinning reserve.

In order to maintain a stable grid, supply (generation) and demand must be kept in balance at all times. The purpose of spinning reserve is to maintain that balance if a generating unit unexpectedly trips out of service. In the example above, should one of the 50 MW units be lost from service, the 50 MW of spinning reserve can be used to immediately make up for the lost generation and restore the balance of supply and demand without waiting for the time needed to start up additional generation. (The time needed to start up a combustion turbine may be from

20 to 40 minutes. The time needed to start up a steam unit may be two to eight hours, depending on whether the unit is hot or cold.)¹

In the HECO Companies' (HECO, HELCO and MECO, collectively) terminology, spinning reserve is that amount needed to cover for the loss of its largest operating unit. Typically, the largest operating unit on the HECO system is the AES 180 MW unit. HECO carries 180 MW of spinning reserve to maintain service to customers should the 180 MW unit unexpectedly trip out of service. HECO's peak demand is in the range of 1,100 to 1,200 MW-net. Therefore, if the demand on the system is 1,100 MW at a particular time, then the total amount of generating capacity that is connected and operating less the 1,100 MW demand must be at least 180 MW.

Carrying higher amounts of spinning reserve is more costly than carrying lower amounts of spinning reserve. This is because in order to provide higher levels of spinning reserve, more units need to be operating and each unit must operate at a lower output level where its fuel efficiency is lower.

Because of the higher cost associated with carrying higher amounts of spinning reserve, the neighbor islands (Hawaii, Maui, Lanai and Molokai) do not carry spinning reserve to cover for the loss of their largest operating units. Rather, they carry only an amount of regulating reserve that is adequate to keep supply and demand in balance as demand on the system changes (up or down) and as the output of as-available resources (such as wind and photovoltaics) fluctuates. Regulating reserve, like spinning reserve, is that amount of reserve capacity that is immediately available from units that are connected to the system and are operating below their

¹ Whether a unit is considered hot or cold depends on the temperature of the boiler and turbine. In general, after a period of 24 to 72 hours after being shut down, depending on the size of the unit, temperatures will decline to a point where the unit is considered cold and more time will be needed to warm up the unit and start it up.

maximum rated levels, except that regulating reserve is not large enough to cover for the loss of the largest operating unit. Regulating reserve also helps to prevent load shedding should a running unit or units unexpectedly trip offline and helps maintain system frequency and voltage during system disturbances (such as when a unit trips) and when the outputs of as-available resources fluctuate.

In HELCO's IRP-2 report, filed in on September 1, 1998 in Docket No. 97-034, in Section 5.3 (Spinning Reserve) on pages 5-3 to 5-6, HELCO provided the results of an analysis showing the cost of providing spinning reserve. The analysis indicated that over a 20-year planning period:

- The increased revenue required to provide 10 MW of spinning reserve was \$1.9 million for a capacity expansion plan consisting of dual train combined cycle units and \$1.4 million for a capacity expansion plan consisting of diesel engines;
- The increased revenue required to provide 20 MW of spinning reserve was \$10.7 million for a capacity expansion plan consisting of dual train combined cycle units and \$7.7 million for a capacity expansion plan consisting of diesel engines; and
- The increased revenue required to provide 30 MW of spinning reserve was \$22.6 million for a capacity expansion plan consisting of dual train combined cycle units and \$18.6 million for a capacity expansion plan consisting of diesel engines.

The analysis was based on projected fuel prices that were much lower than currently projected fuel prices. For example, the projection used in the analysis assumed diesel fuel prices would be about \$31/bbl in 2000 and escalate to about \$66/bbl in 2017. In contrast, HELCO's current fuel price forecast projects that diesel fuel prices will be about \$77/bbl in 2010 and \$204/bbl in 2020. As of July 2009, neighbor island Industrial Oil Fuel prices were about \$68/bbl

and diesel fuel prices were about \$85/bbl. In July 2008, Industrial Oil Fuel prices were about \$115/bbl and diesel fuel prices were about \$179/bbl. Using the current, higher fuel price forecast would result in a significantly higher cost for providing spinning reserve.

MECO-Maui Division and HELCO carry approximately 15 MW on average of regulating reserve to account for changes in demand and in the output of as-available energy generation. The approximate peak demand on each of these systems is about 190 to 200 MW-net. The largest unit currently on HELCO's system is the 30 MW Puna Geothermal Venture ("PGV") unit. MECO-Maui Division's largest unit is one-half of a dual train combined cycle or about 28 MW-net.

In the future, as more as-available generation is added to the systems, the amount of spinning reserve on HECO's system and regulating reserve on HELCO and MECO's systems may need to be increased.

With respect to the effect that spinning reserve (or regulating reserve) has on the utility's heat rate, carrying higher amounts of spinning reserve (or regulating reserve) typically results in higher system heat rates (i.e., lower fuel efficiency). As noted above, when higher spinning or regulating reserve must be provided, more units may need to operate and each unit must operate at a lower output level where its fuel efficiency is lower.

Because the system heat rate is a function of many variables, such as the level of demand on the system, the mix of generation resources serving the demand, each generating unit's efficiency characteristics, as well as the amount of spinning or regulating reserve being carried, it is not possible to quantify the effect that spinning reserve has on the utility's heat rate without first establishing values for each of the relevant factors. For example, the incremental change in the utility's heat rate for a given amount of change in spinning or regulating reserve may be

different at a high demand level compared to that at a lower demand level. Similarly, the incremental change in the utility's heat rate for a given amount of change in spinning or regulating reserve will be different for different generation mixes. For example, the generating mix will change when units must be taken out of service for maintenance. Consequently, it is not possible to use historical system performance to deduce the effect spinning reserve has on a system's heat rate because many variables are changing simultaneously. The effect of spinning or regulating reserve on heat rate cannot be isolated using historical data.

Also, HELCO and MECO have proposed that heat rate benchmarks for ratemaking purposes be determined by fuel type. For example, in HELCO's test year 2006 rate case in Docket No. 05-0315, HELCO proposed that the diesel system fuel efficiency be set at 13,526 Btu/kWh-sales and the Industrial Fuel Oil system fuel efficiency be set at 15,615 Btu/kWh-sales for ratemaking purposes. In MECO's test year 2007 rate case in Docket No. 2006-0387, MECO proposed for the Maui Division that the diesel system fuel efficiency be set at 9,460 Btu/kWh-sales (exclusive of Hana diesel units) and the Industrial Fuel Oil system fuel efficiency be set at 15,311 Btu/kWh-sales for ratemaking purposes.

The effect of increasing regulating reserve is different for the two fuel types. This is because the regulating reserve is provided primarily by the diesel-fired units. Therefore, increases in regulating reserve generally have a greater impact on the diesel system heat rate.

The HECO Companies do not have readily available analyses that quantify the effect that changes in spinning reserve have on each utility's heat rate for a given set of conditions. However, to be responsive to this information request, HECO and MECO-Maui Division are providing the results of readily available production simulations that attempted to quantify the combined effect of the addition of an as-available resource and an associated increase in

regulating reserve to counteract the fluctuations of the as-available resources. For HECO, it is estimated that the system heat rate will increase by about 25 Btu/kWh if a 30 MW wind farm is added to Oahu in 2010 and an additional 15 MW of spinning reserve is added to the existing 180 MW spinning reserve requirement. For MECO-Maui Division, the diesel system heat rate is expected to increase by about 280 Btu/kWh and the Industrial Fuel Oil system heat rate by about 3 Btu/kWh if a 21 MW windfarm is added to the Maui Division system and an additional 10.5 MW of regulating reserve is carried in addition to the existing 15 MW average amount of regulating reserve already carried. For MECO-Maui Division, if a 21 MW windfarm is added to the Maui Division system and an additional 21 MW of regulating reserve is carried in addition to the existing 15 MW average amount of regulating reserve already carried, the analysis indicates that the diesel system heat rate is expected to increase by about 500 Btu/kWh and the Industrial Fuel Oil system heat rate by about 10 Btu/kWh. The MECO results along with the associated computer analyses were provided to the Consumer Advocate during discussions prior to the panel hearing in this proceeding in order to establish an appropriate deadband for the ECAC mechanism.² The HECO Companies' and Consumer Advocate's joint position on the ECAC deadband is provided in their June 25, 2009 filing in this proceeding, Exhibit C, page 11, and in Exhibit C, Attachment 7. A summary of the results of the analysis that was provided to and reviewed by the Consumer Advocate is provided on page 11 of this response. A summary of the input assumptions is provided on page 12 of this response.

The HECO results and summary of inputs are provided on pages 9 and 10 of this response, respectively. This information was not provided to the Consumer Advocate as part of the

² The MECO and HELCO deadbands jointly proposed by the Companies and the Consumer Advocate are reflected in revised Exhibit C, page 11, of the Companies'

discussions on the appropriate deadband for the ECAC mechanism because HECO and the Consumer Advocate had already agreed that an appropriate deadband for HECO should be ±50 Btu/kWh.³ However, the results verify that on a system basis, the ±50 Btu/kWh proposed deadband is reasonable given that the change in heat rate would be within the deadband for all of the scenarios tested, except for one where 90 MW of wind and 45 MW of spinning reserve are added to the system.

For HELCO, an analysis was performed to determine the impact of the addition of renewable energy (as well as to other factors) on HELCO's Industrial Fuel Oil and diesel heat rates. A summary of the HELCO results of the analysis that was provided to and reviewed by the Consumer Advocate is provided on page 13 of this response. A summary of the input assumptions is provided on page 14 of this response. The results generally indicate that the impact on heat rate with the addition of renewable energy is moderate. For example, in Case 2, the addition of 8 MW from PGV would increase HELCO's Industrial Fuel Oil heat rate by 7 Btu/kWh and decrease HELCO's diesel system heat rate by 12 Btu/kWh. In Case 5a, with the addition of 21 MW from the Hu Honua biomass plant, 500 kWh from the Sopogy concentrated solar power plant, and about 3 MW from the Tradewinds biomass plant, HELCO's Industrial Fuel Oil heat rate would increase by 52 Btu/kWh and its diesel system heat rate would decrease by 26 Btu/kWh.

As for quantifying the effect on the Companies' heat rates for the period 2004-2008 if fuel used for spinning reserve had not been included in the heat rate calculation, the HECO Companies do not have this information available. The Companies only record actual fuel

³ See the HECO Companies' and Consumer Advocate's joint position, dated June 25, 2009, in this proceeding, Exhibit C, Attachment 7, page 2, and Exhibit D.

consumption that includes the amount of spinning or operating reserve provided to maintain system reliability, i.e., records or calculations of what fuel consumption would have been if spinning or regulating reserve were not provided are not kept or maintained.

It should be noted that the systems cannot operate with zero operating reserve. Because demand on the system is constantly changing, regulating reserve is needed to keep supply and demand in balance at all times. For example, if the demand on a system is 1,000 MW and exactly 1,000 MW of generation is serving the demand, then if demand suddenly increases by 10 MW, such as when a large industrial customer begins operations, there would not be enough generation immediately available to serve the increased demand. This would result in low frequency on the system and a possible interruption of service to customers since some circuits that serve customers may trip out of service on underfrequency. Moreover, there is always an inherent amount of regulating reserve on the system because generation, when brought on line, comes on in large increments. For example, suppose in the illustrative case above that exactly 1,000 MW of generating is serving 1,000 MW of demand and an additional 10 MW of demand must be served. A generating unit would need to be started up. Assuming the generating unit sizes are 50 MW (not unlike HECO's units for a system of this size), then there would be 1,050 MW of generation to serve the 1,010 MW demand. Thus, there would inherently be 40 MW of regulating reserve.

2008 HECO Sales Variation & Wind Effects on Annual Heat Rate
Heat Rate in BTU/KWH

	LSFO		Diesel (Waiau)		System	
	Heat Rate	Difference	Heat Rate	Difference	Heat Rate	Difference
+ 5% Sales	10,335	0	15,917	-564	10,390	26
+ 2% Sales	10,336	1	16,256	-225	10,374	11
BASE	10,334		16,481		10,363	
- 2% Sales	10,332	-2	16,765	285	10,354	-9
- 5% Sales	10,327	-7	17,139	658	10,341	-22
+ 30MW Wind, 15 MW spin	10,355	21	16,821	340	10,388	25
+ 90MW Wind, 45MW spin	10,396	62	17,305	825	10,439	76

Production simulation base case assumptions are from HECO's 2008 Calibration Factor Report filed with the Commission on March 16, 2009, based on actual 2008 HECO production statistics, fuel prices and IPP production.

HECO 2008 Calibration Factors:

Kahe Power Plant – 1.014

Waiau Power Plant Steam Units – 1.007

Waiau Power Plant Combustion Turbines – 1.121

Honolulu Power Plant - 0.982

Total HECO System – 1.012

HECO Recorded 2008 System Heat Rate: 10,493 Btu/kWh

Additional 30 MW wind farm scenario includes increasing spinning reserve by 15 MW from 180 MW to 195 MW.

Additional 90 MW wind farm scenario includes increasing spinning reserve by 45 MW from 180 MW to 225 MW.

2010 MECO Maui Sales Variation & +21MW Wind Effects
MECO Heat Rates
(Heat Rate in BTU/KWH)

	MSFO (Kahalui)		Diesel (Maalaea)		System (Kahalui & Maalaea)	
	Heat Rate	Diff	Heat Rate	Diff	Heat Rate	Diff
+ 5% Sales	14,576	0	9,170	-45	10,321	-103
+ 2% Sales	14,576	0	9,193	-22	10,379	-45
BASE	14,576	0	9,215	0	10,423	0
- 2% Sales	14,577	1	9,242	27	10,473	50
- 5% Sales	14,577	1	9,276	61	10,545	122
+ 21MW Wind 25.5RR	14,579	3	9,497	282	10,735	312
+ 21MW Wind 36RR	14,588	11	9,794	580	10,931	508
+ 21MW Wind 36RR & - 5% Sales	14,594	18	9,929	714	11,100	677

MECO Maui 2010 ECAC Additional Information

2008 Maui Sales Statistics

- Total sales for Maui in 2008: 1,177 GWH

2008 Net Generation		
Source	GWH	Portion
MECO	1,046	83.9%
HC&S	92	7.4%
CF 41% KWP1	109	8.7%
	1,247	100.0%
Wind	8.7%	
Renewables	16.1%	

2010 Maui Sales Forecast

- The MECO (Maui Division) May 2009 Sales and Peak forecast was used in the ECAC Deadband production simulation runs
- The sales in Pmonth (reduced for DSM and PV) is 1,071 GWh for 2010.

2010 Maui Fuel Price Forecast

Medium Sulfur Fuel Oil (MSFO - No. 6)

Delivered to Kahului Power Plant

6.3 MBtu/Barrel

\$ 72.18 per BBL

1,146 Cents/MBTU

Diesel Oil (0.4% Sulfur)

Delivered to Maalaea Power Plant

5.86 MBtu/Barrel

\$ 110.66 per BBL

1,888 Cents/MBTU

2010 Net Generation Simulation Statistics

BASELINE		
Source	GWH	Portion
MECO	930	81.8%
HC&S	89	7.8%
CF 44% KWP1	117	10.3%
Makila	1	0.1%
	1,137	100.0%

+21MW Wind w/25.5RR

Source	GWH	Portion
MECO	848	74.6%
HC&S	89	7.8%
CF 44% KWP1	117	10.3%
CF 44% 21MW Wind	82	7.2%
Makila	1	0.1%
	1,137	100.0%

All Wind 10.3%
 Renewables 18.2%

All Wind 17.5%
 Renewables 25.4%

NOTES:

- KWP1 estimated energy for 2010 simulation is the average of 2007 & 2008 KWP1 delivered energy.
- 21MW wind energy was scaled from KWP1 2007 & 2008 average delivered energy.
- HC&S estimated energy for 2010 simulation is the average of 2007 & 2008 HC&S delivered energy.

HELCO PRODUCTION SIMULATION SENSITIVITY TESTS -- 2010															
Case	Description	Puna Turbine Upgrade				Hu Honua, Sopogy, and Tradewinds Added				Change in Sales				Δ from Base	
		Yes	No	Shipman Retired	PGV 8 added	Yes	No	Yes	No	+ 5%	+ 2%	Base	- 2%	- 5%	HELCO
1	Base			X		X		X		X		X		11,492	--
2	PGV Additional 8 MW			X		X		X		X		X		11,558	66
3a	Change In Sales: + 5%			X		X		X		X		X		11,401	(91)
3b	Change In Sales: + 2%			X		X		X		X		X		11,448	(43)
3c	Change In Sales: - 2%			X		X		X		X		X		11,538	47
3d	Change In Sales: - 5%			X		X		X		X		X		11,624	132
4	Puna Turbine Upgrade			X		X		X		X		X		11,077	(415)
5a	Hu Honua, Sopogy, Tradewinds and Shipman Retired			X		X		X		X		X		11,824	332
5b				X		X		X		X		X		11,771	279
6a	Puna Turbine Upgrade, PGV Additional 8 MW			X		X		X		X		X		11,142	(350)
6b	Change In Sales: + 5%			X		X		X		X		X		11,024	(467)
6c	Change In Sales: + 2%			X		X		X		X		X		11,090	(402)
6d	Change In Sales: - 2%			X		X		X		X		X		11,204	(287)
6e	Change In Sales: - 5%			X		X		X		X		X		11,305	(186)
7	PGV Additional 8 MW, Hu Honua, Shipman Retired			X		X		X		X		X		11,898	406
8	Puna Turbine Upgrade, Hu Honua, PGV Additional 8 MW			X		X		X		X		X		11,447	(45)
9a	Puna Turbine Upgrade, Hu Honua, Shipman Retired, PGV Additional 8 MW			X		X		X		X		X		11,388	(103)
9b	Change In Sales: + 5%			X		X		X		X		X		11,224	(268)
9c	Change In Sales: + 2%			X		X		X		X		X		11,316	(176)
9d	Change In Sales: - 2%			X		X		X		X		X		11,462	(29)
9e	Change In Sales: - 5%			X		X		X		X		X		11,582	91

ECAC Deadband Base Case Assumptions:

HELCO:

2008 Calibration Factors: IFO: 1.02 Diesel: 1.042

ST-7 installed from July 2009

From July 2009, only one Shipman unit is operating from 3pm-9pm daily.
For our model, we are assuming only one unit will operate for each month

May 2009 Fuel Inventory Prices and April 14, 2009 dispersed diesel cost

2010 Overhaul Schedule from Lisa D 7/8/2008

No Puna Steam Turbine Upgrade

No Kawaihae Fuel Facility

HELCO Waiau hydro unit based on historical 5-yr average by month (03-07)

HELCO Puueo hydro unit based on historical 2007 average by month

IPPs:

No Tradewinds

No Sopogy

No Hu Honua

PGV: No PGV Additional 8, PGV at 27 MW off-peak and at 30 MW on-peak

Apollo/Pakini Nui Wind Farm: Used historical hourly pattern and historical generation for April-September 2007.
For October-December 2007 and January-March 2008, used estimated uncurtailed generation provided by Tawhiri and the hourly profile was adjusted to provide the estimated generation

Hawi: Jan - Apr 2009 Modeled with hourly profile from 2008, May - Dec 2009 Modeled with hourly profile from 2007

Wailuku and other IPP hydro units based on historical 5-yr average by month (03-07)

Load:

Sales and Peak Forecast: 2009-2014 sales and peak forecast from March 24 2009 S&P. Monthly peaks and energy from J. Villanueva file "gen planning 2009-14 update 5-27-09.xls"

Historical hourly load adjusted for anomalous data: 2007

Loss factors updated: From TPD (K. Asato) for IRP-3

PUC-IR-54

Please quantify the effect on the HECO Companies and customers for the period 2004-2008 for each utility had the ECAC held the utility responsible for heat rate performance of +/- 50 Btus from the target rate and then passed through any heat rate related changes onto customers beyond the performance band.

HECO Response:

Please see Attachment 1 to this response. Column C shows the difference between the amount of fuel cost recovery through the ECAC and actual fuel costs for each of the HECO Companies (this was included in the HECO Companies response to PUC-IR-43). Compared to these results, if the ECAC were modified such that the utility was responsible for heat rate performance of +/- 50 Btus from the target heat rate and any heat rate related changes beyond the performance band were passed to customers, over the 2004-2008 period, HECO would have recovered \$761,000 more from customers, HELCO would have recovered \$8,913,000 more from customers, and MECO would have recovered \$599,000 more from customers. In the aggregate, the HECO Companies would have recovered \$10,273,000 more from customers over the 2004 to 2008 historical period.

ECAC Heat Rate Comparison

	Fuel Expense (\$000)			PUC-IR-54	PUC-IR-54
	Actual Cost	ECAC Recovery	Effect on Utility (C= B - A)	Effect on Utility (D)	Change In Effect on Utility (E = D - C)
	(A)	(B)	(C= B - A)	(D)	(E = D - C)
HECO					
2004	\$327,376	\$327,550	\$174	-\$62	-\$236
2005	\$416,073	\$412,548	-\$3,525	-\$1,215	\$2,310
2006	\$510,859	\$511,768	\$909	-\$171	-\$1,080
2007	\$518,937	\$514,037	-\$4,900	-\$1,316	\$3,584
2008	<u>\$856,990</u>	<u>\$863,763</u>	<u>\$6,773</u>	<u>\$2,956</u>	<u>-\$3,817</u>
Total	\$2,630,235	\$2,629,666	-\$569	\$192	\$761
HELCO					
2004	\$38,117	\$37,696	-\$421	-\$3	\$418
2005	\$65,272	\$65,144	-\$128	\$1	\$129
2006	\$85,229	\$82,510	-\$2,719	-\$282	\$2,437
2007	\$74,964	\$72,914	-\$2,050	-\$201	\$1,849
2008	<u>\$109,618</u>	<u>\$105,179</u>	<u>-\$4,439</u>	<u>-\$359</u>	<u>\$4,080</u>
Total	\$373,200	\$363,443	-\$9,757	-\$844	\$8,913
MECO					
2004	\$110,044	\$109,021	-\$1,023	-\$442	\$581
2005	\$153,832	\$151,889	-\$1,943	-\$581	\$1,362
2006	\$180,232	\$176,181	-\$4,051	-\$801	\$3,250
2007	\$173,130	\$176,003	\$2,873	\$799	-\$2,074
2008	<u>\$252,076</u>	<u>\$255,184</u>	<u>\$3,108</u>	<u>\$588</u>	<u>-\$2,520</u>
Total	\$869,314	\$868,278	-\$1,036	-\$437	\$599
Total					
2004	\$475,537	\$474,267	-\$1,270	-\$507	\$763
2005	\$635,177	\$629,581	-\$5,596	-\$1,795	\$3,801
2006	\$776,320	\$770,459	-\$5,861	-\$1,254	\$4,607
2007	\$767,031	\$762,954	-\$4,077	-\$718	\$3,359
2008	<u>\$1,218,684</u>	<u>\$1,224,126</u>	<u>\$5,442</u>	<u>\$3,185</u>	<u>-\$2,257</u>
Total	\$3,872,749	\$3,861,387	-\$11,362	-\$1,089	\$10,273

Source:

Columns A-C: Response to PUC-IR-43, Docket No. 2008-0274.

Column D: See Response to PUC-IR-54, Attachment 1, pages 2-4.

Hawaiian Electric Company, Inc.
 ECAC Analysis

In \$000s	Recovery at	Target Heat	Recovery at	Actual	IR-54	IR-54
	Heat Rate	Rate Cost	Heat Rate	Difference	Difference to	Difference to
	Less 50 btu	Recovery	Plus 50 btu	to HECO	Customers	HECO
1Q2004	\$66,773	\$67,150	\$67,451	\$67,753	\$678	\$377
2Q2004	\$77,316	\$76,487	\$76,831	\$77,175	-\$485	-\$141
3Q2004	\$85,492	\$85,143	\$85,526	\$85,908	\$34	\$0
4Q2004	\$97,795	\$97,305	\$97,742	\$98,180	-\$53	\$0
1Q2005	\$69,651	\$70,301	\$70,618	\$70,933	\$967	\$650
2Q2005	\$97,797	\$96,812	\$97,247	\$97,683	-\$550	-\$114
3Q2005	\$123,259	\$120,334	\$120,875	\$121,417	-\$2,384	-\$1,842
4Q2005	\$125,366	\$123,254	\$123,808	\$124,362	-\$1,558	-\$1,004
1Q2006	\$114,337	\$113,555	\$114,065	\$114,576	-\$272	\$0
2Q2006	\$129,039	\$130,120	\$130,705	\$131,290	\$1,666	\$1,081
3Q2006	\$149,520	\$148,893	\$149,562	\$150,232	\$42	\$0
4Q2006	\$117,963	\$116,910	\$117,436	\$117,962	-\$527	-\$1
1Q2007	\$99,828	\$98,898	\$99,342	\$99,788	-\$486	-\$40
2Q2007	\$107,824	\$105,556	\$106,031	\$106,505	-\$1,793	-\$1,319
3Q2007	\$155,452	\$151,862	\$152,545	\$153,227	-\$2,907	-\$2,225
4Q2007	\$155,833	\$155,451	\$156,119	\$156,818	\$286	\$0
1Q2008	\$170,942	\$172,609	\$173,385	\$174,161	\$2,443	\$1,667
2Q2008	\$186,844	\$188,994	\$189,844	\$190,694	\$3,000	\$2,150
3Q2008	\$268,728	\$268,526	\$269,737	\$270,947	\$1,009	\$0
4Q2008	\$230,476	\$229,761	\$230,797	\$231,833	\$321	\$0
2004	\$327,376	\$326,085	\$327,550	\$329,016	\$174	\$236
2005	\$416,073	\$410,701	\$412,548	\$414,395	-\$3,525	-\$2,310
2006	\$510,859	\$509,478	\$511,768	\$514,060	\$909	\$1,080
2007	\$518,937	\$511,767	\$514,037	\$516,338	-\$4,900	-\$3,584
2008	\$856,990	\$859,890	\$863,763	\$867,635	\$6,773	\$3,817
Total	\$2,630,235	\$2,617,921	\$2,629,666	\$2,641,444	-\$569	-\$761
						\$192

Hawaii Electric Light Company, Inc.
 ECAC Analysis

In \$000s	Recovery at Heat Rate Less 50 btu		Target Heat Rate Cost Recovery	Recovery at Heat Rate Plus 50 btu	Actual Difference to HELCO	IR-54 Difference to Customers	IR-54 Difference to HELCO
	Actual Costs						
1Q2004	\$7,513	\$7,120	\$7,144	\$7,169	-\$369	-\$344	-\$25
2Q2004	\$8,658	\$8,526	\$8,555	\$8,584	-\$103	-\$74	-\$29
3Q2004	\$10,327	\$10,314	\$10,350	\$10,385	\$23	\$0	\$23
4Q2004	\$11,619	\$11,608	\$11,647	\$11,687	\$28	\$0	\$28
1Q2005	\$15,307	\$15,497	\$15,550	\$15,603	\$243	\$190	\$53
2Q2005	\$13,677	\$13,533	\$13,580	\$13,626	-\$97	-\$51	-\$46
3Q2005	\$16,799	\$17,066	\$17,124	\$17,183	\$325	\$267	\$58
4Q2005	\$19,489	\$18,825	\$18,890	\$18,954	-\$599	-\$535	-\$64
1Q2006	\$20,102	\$19,683	\$19,750	\$19,818	-\$352	-\$284	-\$68
2Q2006	\$18,035	\$17,035	\$17,094	\$17,152	-\$941	-\$883	-\$58
3Q2006	\$24,723	\$23,890	\$23,972	\$24,054	-\$751	-\$669	-\$82
4Q2006	\$22,369	\$21,620	\$21,694	\$21,768	-\$675	-\$601	-\$74
1Q2007	\$20,039	\$19,263	\$19,330	\$19,396	-\$709	-\$643	-\$66
2Q2007	\$15,667	\$14,621	\$14,671	\$14,721	-\$996	-\$946	-\$50
3Q2007	\$17,983	\$17,909	\$17,970	\$18,032	-\$13	\$0	-\$13
4Q2007	\$21,276	\$20,872	\$20,943	\$21,015	-\$333	-\$261	-\$72
1Q2008	\$24,046	\$22,534	\$22,611	\$22,689	-\$1,435	-\$1,357	-\$78
2Q2008	\$25,000	\$24,266	\$24,349	\$24,432	-\$651	-\$568	-\$83
3Q2008	\$30,148	\$29,036	\$29,136	\$29,235	-\$1,012	-\$913	-\$99
4Q2008	<u>\$30,423</u>	<u>\$28,983</u>	<u>\$29,083</u>	<u>\$29,182</u>	<u>-\$1,340</u>	<u>-\$1,241</u>	<u>-\$99</u>
2004	\$38,117	\$37,568	\$37,696	\$37,825	-\$421	-\$418	-\$3
2005	\$65,272	\$64,921	\$65,144	\$65,366	-\$128	-\$129	\$1
2006	\$85,229	\$82,228	\$82,510	\$82,792	-\$2,719	-\$2,437	-\$282
2007	\$74,965	\$72,665	\$72,914	\$73,164	-\$2,051	-\$1,850	-\$201
2008	<u>\$109,617</u>	<u>\$104,819</u>	<u>\$105,179</u>	<u>\$105,538</u>	<u>-\$4,438</u>	<u>-\$4,079</u>	<u>-\$359</u>
Total	\$373,200	\$362,201	\$363,443	\$364,685	-\$9,757	-\$8,913	-\$844

Maui Electric Company, Ltd.
 ECAC Analysis

In \$000s	Recovery at Heat Rate Less 50 btu		Target Heat Rate Cost Recovery	Recovery at Heat Rate Plus 50 btu	Actual Difference to MECO	IR-54 Difference to Customers	IR-54 Difference to MECO
	Actual Costs						
1Q2004	\$21,079	\$20,940	\$21,036	\$21,132	-\$43	\$0	-\$43
2Q2004	\$25,810	\$25,481	\$25,598	\$25,714	-\$212	-\$96	-\$116
3Q2004	\$31,097	\$30,811	\$30,952	\$31,092	-\$145	-\$5	-\$140
4Q2004	\$32,058	\$31,292	\$31,435	\$31,578	-\$623	-\$480	-\$143
1Q2005	\$29,430	\$28,827	\$28,959	\$29,091	-\$471	-\$339	-\$132
2Q2005	\$36,134	\$35,444	\$35,606	\$35,768	-\$528	-\$366	-\$162
3Q2005	\$41,431	\$40,405	\$40,590	\$40,774	-\$841	-\$657	-\$184
4Q2005	\$46,837	\$46,522	\$46,734	\$46,946	-\$103	\$0	-\$103
1Q2006	\$39,485	\$39,053	\$39,231	\$39,409	-\$254	-\$76	-\$178
2Q2006	\$43,515	\$42,892	\$43,088	\$43,283	-\$427	-\$232	-\$195
3Q2006	\$51,688	\$48,456	\$48,677	\$48,899	-\$3,011	-\$2,789	-\$222
4Q2006	\$45,544	\$44,980	\$45,185	\$45,391	-\$359	-\$153	-\$206
1Q2007	\$38,754	\$39,640	\$39,821	\$40,002	\$1,067	\$886	\$181
2Q2007	\$41,588	\$42,155	\$42,347	\$42,539	\$759	\$567	\$192
3Q2007	\$46,968	\$47,563	\$47,780	\$47,997	\$812	\$595	\$217
4Q2007	\$45,820	\$45,846	\$46,055	\$46,265	\$235	\$26	\$209
1Q2008	\$53,233	\$54,092	\$54,339	\$54,585	\$1,106	\$859	\$247
2Q2008	\$60,241	\$62,253	\$62,536	\$62,821	\$2,295	\$2,012	\$283
3Q2008	\$74,946	\$75,287	\$75,630	\$75,974	\$684	\$341	\$343
4Q2008	<u>\$63,656</u>	<u>\$62,394</u>	<u>\$62,679</u>	<u>\$62,964</u>	<u>-\$977</u>	<u>-\$692</u>	<u>-\$285</u>
2004	\$110,044	\$108,524	\$109,021	\$109,516	-\$1,023	-\$581	-\$442
2005	\$153,832	\$151,198	\$151,889	\$152,579	-\$1,943	-\$1,362	-\$581
2006	\$180,232	\$175,381	\$176,181	\$176,982	-\$4,051	-\$3,250	-\$801
2007	\$173,130	\$175,204	\$176,003	\$176,803	\$2,873	\$2,074	\$799
2008	<u>\$252,076</u>	<u>\$254,026</u>	<u>\$255,184</u>	<u>\$256,344</u>	<u>\$3,108</u>	<u>\$2,520</u>	<u>\$588</u>
Total	\$869,314	\$864,333	\$868,278	\$872,224	-\$1,036	-\$599	-\$437

PUC-IR-55

Please confirm that line 35 on the most recent version of PUC-IR-14 represents the additional revenue generated by the RPC with reset at each rate case, and line 37f the estimated ROE.

HECO Response:

The HECO Companies have calculated revised and updated amounts for line 35 for the case with “RPC with reset” and these revised amounts are shown on line 44 of Attachment 1 of their response to PUC-IR-52. With the revision and update for each of the HECO Companies, the HECO Companies confirm that line 44 of Attachment 1 of the response to PUC-IR-52 represents the additional revenue generated by the “RPC with reset” that is reset at each rate case. The revisions that affect the RPC amounts are as follows:

- 1) HECO: (a) To provide the RPC for the 2004 to 2008 historical years, and the 2009 RPC estimate in response to PUC-IR-52, and (b) To correct 2011 to 2013 which did not correctly accumulate the change of the customer index from year to year (the line 35 value in Attachment 1, page 1 of the response to PUC-IR-14 (revised June 29, 2009) incorrectly indicated the change from the previous year instead of the change from the previous rate case value), and which did not use the correct base revenues from the 2011 rate case to calculate the 2012 and 2013 RPC values.
- 2) HELCO: (a) To provide the RPC for 2004 to 2008 historical years and for years 2009 to 2010 in response to PUC-IR-52, and (b) to correct 2012 to 2013 which did not correctly reflect the cumulative change of the customer index from year to year (the line 35 value in Attachment 1, page 5 of the response to PUC-IR-14 (revised June 29, 2009) incorrectly indicated the change from the previous year instead of the change from the previous rate case value).

- 3) MECO: (a) To provide the RPC for 2004 to 2008 historical years and for years 2009 to 2010 in response to PUC-IR-52, and (b) to correct 2012 which did not reflect the cumulative change of the customer index from 2011 (the line 35 value in Attachment 1, page 9 of the response to PUC-IR-14 (revised June 25, 2009) incorrectly indicated the change from the previous year instead of the change from the previous rate case value).

Please see Attachment 1 of this response which is a summary of the estimated RPC values with rate case reset from 2004 to 2013.

RPC Calculations with Reset, 2004-2013
Summary

Assumptions:

1. Customer growth calculated to 3 decimal places for HECO, 2 for HELCO and MECO.
2. Initial Test Year Base Revenue = HECO TY 1995, HELCO TY 2000, MECO TY 1999.
3. Base Revenue = TY Electric Revenue less revenue for fuel expense less revenue for purchased power expense.
4. RPC commences in 2004 with 2003 customers as base number of customers.
5. RPC is calculated annual value. When there is an interim rate increase, annualized RPC value is prorated for months prior to interim award.

In \$000s	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
HECO	\$594	\$2,673	\$3,587	\$4,318	\$907	\$1,815	\$3,131	\$3,131	\$4,117	\$7,647
HELCO	\$2,419	\$5,644	\$8,869	\$3,023	\$2,653	\$3,980	\$3,979	\$1,688	\$5,064	\$3,376
MECO	\$1,898	\$3,796	\$5,694	\$7,364	\$2,669	\$4,003	\$2,668	\$3,147	\$2,360	\$3,469

EXHIBIT B

Schmidt, Damon L.

From: Haack, Lyndon
Sent: Friday, August 07, 2009 5:30 PM
To: mark@DEPhawaii.com; Blume, Timothy; Catherine.P.Awakuni@dcca.hawaii.gov; champleym@hotmail.com; dcodiga@sil-law.com; Desiree.RD.Lipscomb; eseese@dbedt.hawaii.gov; ESeese@dbedt.hawaii.gov; gregg.j.kinkley@hawaii.gov; gsumida@carlsmith.com; jcfm@hawaiiantel.net; Jon.S.Itomura@dcca.hawaii.gov; kmorihara@moriharagroup.com; mbrosch@utilitech.net; mgresham@hawaii.rr.com; nnelson@carlsmith.com; Randall Hee; scarver@utilitech.net; tlui-kwan@carlsmith.com; Trisha. T. Takeuchi; wsb@lava.net
Cc: Hackman, Bob; Kikuta, Peter Y.; Leong, Carol A; Leong, Marion S.; Schmidt, Damon L.; Williams,Jr., Thomas; Matsuura, Dean K.; Lee, Timothy; Miller, Sue; Yamashita, Karen
Subject: RE: Dkt 2008-0274 Decoupling - CORRECTION - HECO responses to PUC IRs 50 to 55
Attachments: Dkt 2008-0274 2009-08-07 HECO Cos. Responses to PUC IRs 50-55 redacted Att. 8.pdf; HECO Responses PUC IRs 50-55 Excel files Non-Conf.zip

Attachment 8 of the HECO Companies' response to PUC-IR-52 contains confidential forward-looking information and was unintentionally filed as non-confidential.

Please delete the files that were attached to the email below. Corrected documents are attached.

The Companies will be filing the redacted pages with the Commission on Monday morning, August 10.

I apologize for the error and the inconvenience.

~~~~~

Lyndon Haack  
Regulatory Analyst  
Hawaiian Electric Company, Inc.  
Phone 808.543.4712 Fax 808.203.1715  
[Lyndon.Haack@heco.com](mailto:Lyndon.Haack@heco.com)

---

**From:** Haack, Lyndon  
**Sent:** Friday, August 07, 2009 4:57 PM  
**To:** (mark@DEPhawaii.com); Blume, Timothy; 'Catherine.P.Awakuni@dcca.hawaii.gov'; 'champleym@hotmail.com'; 'dcodiga@sil-law.com'; 'Desiree.RD.Lipscomb'; 'eseese@dbedt.hawaii.gov'; Estrella Seese (ESeese@dbedt.hawaii.gov); 'gregg.j.kinkley@hawaii.gov'; 'gsumida@carlsmith.com'; 'jcfm@hawaiiantel.net'; 'Jon.S.Itomura@dcca.hawaii.gov'; 'kmorihara@moriharagroup.com'; 'mbrosch@utilitech.net'; 'mgresham@hawaii.rr.com'; 'nnelson@carlsmith.com'; 'Randall Hee'; 'scarver@utilitech.net'; 'tlui-kwan@carlsmith.com'; Trisha. T. Takeuchi; 'wsb@lava.net'  
**Cc:** Hackman, Bob (Goodsill); Kikuta, Peter Y. @Goodsill; Leong, Carol @Goodsill; Leong, Marion S. @Goodsill; Schmidt, Damon (Goodsill); Williams Jr., Thomas @Goodsill; Matsuura, Dean; Lee, Timothy; Miller, Sue; Yamashita, Karen  
**Subject:** Dkt 2008-0274 Decoupling - HECO responses to PUC IRs 50 to 55

The HECO Companies filed the attached responses to PUC IRs 50 to 55 with the Commission on August 7.

Also attached are the related Excel files.

Confidential documents will be sent separately.

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Lyndon Haack
Regulatory Analyst
Hawaiian Electric Company, Inc.
Phone 808.543.4712 Fax 808.203.1715
Lyndon.Haack@heco.com

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF HAWAII

In the Matter of

PUBLIC UTILITIES COMMISSION

Instituting a Proceeding to Investigate
Implementing a Decoupling Mechanism for
Hawaiian Electric Company, Inc., Hawaii Electric
Light Company, Inc., and Maui Electric Company,
Limited

DOCKET NO. 2008-0274

DECLARATION OF PATSY H. NANBU

1. I, Patsy H. Nanbu, am Controller, Hawaiian Electric Company, Inc. ("Hawaiian Electric"). I make this declaration based upon my own personal knowledge and upon information and belief gained in that capacity, and in support of the accompanying motion.
2. My business address is 900 Richards Street, Honolulu, Hawaii.
3. The return on equity ("ROE") forecasts for Hawaiian Electric, Hawaii Electric Light Company, Inc. and Maui Electric Company, Limited (collectively, the "Hawaiian Electric Companies" or "Companies") provided in Attachment 8 to the Companies' response to PUC-IR-52 in this docket ("Attachment 8"), for the years 2009 through 2013 are confidential, as they constitute financial information for future years that could affect investor decisions regarding the Companies' financing. The Companies' intent had been to provide the confidential information under the January 6, 2009 protective order issued in this docket ("Protective Order"). However, in submitting Attachment 8 on August 7, 2009, the Hawaiian Electric Companies inadvertently provided the confidential information in a non-confidential format.
4. The ROE forecasts for the Hawaiian Electric Companies provided in Attachment

8 for the years 2009 through 2013 constitute financial information for future years which is nonpublic information that should not be disclosed, as such disclosure would likely trigger requirements under the rules and guidelines of the Securities and Exchange Commission (“SEC”) and/or the New York Stock Exchange (“NYSE”) requiring that information that would be meaningful to investors be released to all investors, if the information is disclosed beyond a limited number of “insiders” (including persons required by agreement to maintain confidentiality of the information and to use it only for proper purposes).

5. If the confidential portions of Attachment 8 are not filed under the Protective Order, disclosure of nonpublic information in Attachment 8 would likely trigger disclosure requirements under the rules and regulations of the SEC and/or NYSE.

6. The Hawaiian Electric Companies completed Attachment 8 based on the information included on Attachment 1 to the Companies’ response to PUC-IR-52, which was provided under the Protective Order for illustrative purposes, based on the information request including certain revenue assumptions for future years. If such information is required to be disclosed pursuant to the disclosure requirements under the rules and regulations of the SEC and/or the NYSE, because such information is not provided under the Protective Order, investors may use such information out of the context in which it was prepared, and make inappropriate investment decisions that could lead to claims against the Hawaiian Electric Companies.

I declare under penalty of perjury that the foregoing is true and correct.

DATED: Honolulu, Hawaii, August 12, 2009.

Patsy H. Nanbu

PATSY H. NANBU

CERTIFICATE OF SERVICE

I hereby certify that I have this date served a copy of the foregoing MOTION TO SEAL OF HAWAIIAN ELECTRIC COMPANY, INC., HAWAII ELECTRIC LIGHT COMPANY, INC. AND MAUI ELECTRIC COMPANY, LIMITED; EXHIBITS A-B; and DECLARATION OF PATSY H. NANBU, together with this CERTIFICATE OF SERVICE, as indicated below by hand delivery and/or by e-mailing a copy to the following:

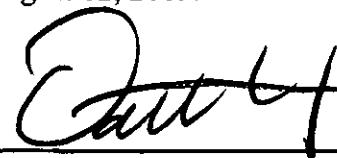
Hand Delivery	E-mail	
2 copies	X	CATHERINE P. AWAKUNI EXECUTIVE DIRECTOR DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS DIVISION OF CONSUMER ADVOCACY P. O. Box 541 Honolulu, Hawaii 96809 (Catherine.P.Awakuni@dcca.hawaii.gov) (Jon.S.Itomura@dcca.hawaii.gov) (mbrosch@utilitech.net) (scarver@utilitech.net)
	X	RANDALL J. HEE, P.E. PRESIDENT AND CEO KAUAI ISLAND UTILITY COOPERATIVE 4463 Pahe'e Street, Suite 1 Lihue, Hawaii 96766-2000 (rhee@kiuc.coop)

Hand Delivery	E-mail	
	X	<p>TIMOTHY BLUME MICHAEL YAMANE KAUAI ISLAND UTILITY COOPERATIVE 4463 Pahe'e Street, Suite 1 Lihue, Hawaii 96766-2000 (tblume@kiuc.coop)</p>
	X	<p>KENT D. MORIHARA, ESQ. KRIS N. NAKAGAWA, ESQ. RHONDA L. CHING, ESQ. MORIHARA LAU & FONG LLP 841 Bishop Street, Ste. 400 Honolulu, HI 96813 (kmorihara@moriharagroup.com)</p> <p>Attorneys for KAUAI ISLAND UTILITY COOPERATIVE</p>
	X	<p>WARREN S. BOLLMEIER II PRESIDENT HAWAII RENEWABLE ENERGY ALLIANCE 46-040 Konane Place, No. 3816 Kaneohe, HI 96744 (wsb@lava.net)</p>
	X	<p>CARL FREEDMAN HAIKU DESIGN & ANALYSIS 4234 Hana Highway Haiku, Hawaii 96708 (jcfm@hawaiiantel.net)</p>
	X	<p>GERALD A. SUMIDA, ESQ. TIM LUI-KWAN, ESQ. NATHAN M. SMITH, ESQ. CARLSMITH BALL LLP ASB Tower, Suite 2200 1001 Bishop Street Honolulu, Hawaii 96813 (gsumida@carlsmith.com) (tlui-kwan@carlsmith.com) (nnelson@carlsmith.com)</p> <p>Attorneys for HAWAII HOLDINGS, LLC, dba FIRST WIND HAWAII</p>

Hand Delivery	E-mail	
	X	MIKE GRESHAM HAWAII HOLDINGS, LLC, dba FIRST WIND HAWAII 33 Lono Avenue, Suite 380 Kahului, Hawaii 96732 (mgresham@hawaii.rr.com)
	X	DEBORAH DAY EMERSON, ESQ. GREGG J. KINKLEY, ESQ. DEPUTY ATTORNEY GENERAL DEPARTMENT OF THE ATTORNEY GENERAL STATE OF HAWAII 425 King Street Honolulu, Hawaii 96813 (gregg.j.kinkley@hawaii.gov) Attorneys for the DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT, AND TOURISM
	X	THEODORE PECK DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT, AND TOURISM State Office Tower 235 South Beretania Street, Room 501 Honolulu, Hawaii 96813 (tpeck@debedt.hawaii.gov)
	X	ESTRELLA SEESE DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT, AND TOURISM State Office Tower 235 South Beretania Street, Room 501 Honolulu, Hawaii 96813 (esese@debedt.hawaii.gov)
	X	MARK DUDA PRESIDENT HAWAII SOLAR ENERGY ASSOCIATION P. O. Box 37070 Honolulu, Hawaii 96737 (mark@suntechhawaii.com)

Hand Delivery	E-mail	
	X	<p>DOUGLAS A. CODIGA, ESQ. SCHLACK ITO LOCKWOOD PIPER & ELKIND Topa Financial Center 745 Fort Street Mall, Suite 1500 Honolulu, Hawaii 96813 (dcodiga@sil-law.com)</p> <p>Attorney for BLUE PLANET FOUNDATION</p>

DATED: Honolulu, Hawaii, August 12, 2009.



THOMAS W. WILLIAMS, JR.
PETER Y. KIKUTA
DAMON L. SCHMIDT

Attorneys for
HAWAIIAN ELECTRIC COMPANY, INC.
HAWAII ELECTRIC LIGHT COMPANY, INC., and
MAUI ELECTRIC COMPANY, LIMITED

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